

Cordless Hand Scanner Series 7 with *Bluetooth*[®] Wireless Technology

User's Guide



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Feel free to contact Socket Mobile at:

Socket Mobile, Inc.
39700 Eureka Drive
Newark, CA 94560-4808
USA

Other than the above, Socket Mobile can assume no responsibility for anything resulting from the application of information contained in this manual.

Please refrain from any applications of the Socket Mobile Cordless Hand Scanner that are not described in this manual. Please refrain from disassembling the Cordless Hand Scanner. Disassembly of this device will void the product warranty.

You can track new product releases, software updates and technical bulletins by visiting the Socket Mobile website at:
www.socketmobile.com.

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1 | INTRODUCTION

Thank you for purchasing the Socket Cordless Hand Scanner (CHS) Series 7 with *Bluetooth* Wireless Technology. The CHS combines the power of bar code scanning with the convenience of *Bluetooth* wireless technology so you can collect bar coded data without being tied to your mobile or desktop computer. Compact, lightweight, and ergonomically designed to fit comfortably in a hand, the CHS is ideal for high volume data collection applications.

SCANNER VERSIONS

The CHS Series 7 includes three versions of the scanner.

- The entry-level CHS 7E uses linear CMOS imaging technology.
- The mid-level CHS 7M has a Class 1 laser scanner.
- The performance level CHS 7P features a Class 2 laser scanner and a ruggedized construction.



ABOUT THE SOFTWARE

SocketScan™ enters scanned data directly into any Windows, Palm or RIM OS program as if the data were manually typed. Included is a utility that enables you to configure Prefix/Suffixes, sounds, and other special settings for the CHS.



Connect!Agent™ software for Windows Mobile automates *Bluetooth* by setting up and managing the wireless connection.

ActivePairing™ for Windows Mobile, XP and Vista enables you to connect to a specific host computer by scanning a special bar code.

Error Proof Protocol™ ensures reliability of data collection by confirming in real time that scanned data has reached the host computer. This minimizes the risk of data loss from a dropped connection.

PACKAGE CONTENTS

- Cordless Hand Scanner with *Bluetooth* Wireless Technology
- AC charging adapter with international plugs
- 2 NiMH rechargeable AAA batteries
- Lanyard with retractable tether
- Software Installation CD
- Booklets with copyright, warranty, and regulatory compliance

SYSTEM COMPATIBILITY REQUIREMENTS

Windows Mobile:

- Any of the following Windows Mobile versions:
 - Windows Mobile 2003, 2003SE or 5.0 for Pocket PC/Pocket PC Phone
 - Windows Mobile 6.0 or 6.1 Classic/Professional
- *Bluetooth* radio
- Either of the following *Bluetooth* stacks: *
 - Broadcom 1.5 or later
 - Microsoft *Bluetooth* stack for Windows Mobile
 - Stonestreet One 1.2.4 (Build 1783)
- Software installation requires a Windows-based host PC with the appropriate synchronization software (available free from the Microsoft website).

Windows CE.NET: The CHS Series 7 is compatible with the Intermec CK30 mobile computer.

Windows XP and Windows Vista:

- Windows XP Professional/ Tablet PC (SP1, SP2, SP3) or Windows Vista Business/Ultimate (SP1)
- *Bluetooth* radio
- *Bluetooth* stack from Microsoft, Toshiba or Broadcom

Palm OS:

- Palm OS 5.2 or later
- *Bluetooth* wireless technology
- Software installation requires Palm Desktop Software on a host computer.

RIM BlackBerry:

- Any of the following devices:
 - Curve 83xx
 - Pearl 81xx
 - Bold 9000

For instructions on using the CHS with a smartphone running Symbian OS, visit: www.socketmobile.com/support/downloads

For software updates, visit: www.socketmobile.com/support/downloads/

PRODUCT REGISTRATION

Socket highly recommends that all customers register their products. Registered users receive priority for technical support and can choose to obtain special offers, upgrades, and new product information. Register online at: support.socketmobile.com

SOCKETCARE™ SERVICE PROGRAM

The SocketCare service program is available for the Cordless Hand Scanner. For more information, please visit: www.socketmobile.com/support/socketcare/

ACCESSORIES

Various accessories are available for the CHS, including:

- Charging cradle
- Car charger
- Scanning Companion USB *Bluetooth* adapter
- Accessory pack with lanyard, pull reel, and batteries
- Mobile Power Pack (available in Americas and Asia Pacific)

For more information, please visit: www.socketmobile.com/products/accessories/

ADDITIONAL DOCUMENTATION

Socket has also published Quick Start Guides and an Advanced Programming Guide, which includes information on enabling special scanning settings (e.g., raw data mode). Download them online at: www.socketmobile.com/support/downloads/

HARDWARE FEATURES

Product Diagram



Rechargeable Batteries and AC Adapter

Charge the internal batteries by using the included AC adapter. The adapter rating is 5V, 2A, positive pole center. New, fully charged batteries last ~19 hours to scan 14,000 bar codes.

WARNING: Charge ONLY NiMH batteries in the CHS. Damage may result if other battery types are charged. Do not store the CHS for more than 30 days with the batteries installed.

The red Battery Status LED will not function properly if standard AAA non-rechargeable batteries are being used.

Besides the included AC adapter, you can also recharge the CHS by using any of the following:

- Socket charging cradle for the CHS
- Socket car charger
- Socket Mobile Power Pack (available in Americas and Asia Pacific)
- AC and DC adapters of the Socket SoMo 650 handheld computer, as well as those of most recent Pocket PCs from Casio, Fujitsu, HP, and Toshiba

Socket charging accessories are available online at:
www.socketmobile.com/products/accessories

Status Indicator LED

LED	LED Activity	Meaning
Bluetooth Status (Blue)	1 blink per second	Bluetooth radio is on, but not connected.
	1 blink per 3 seconds	Bluetooth connection.
Good Read (Green)	On	Data successfully scanned and transmitted to host device.
Battery Status (Red)	Blinking	20% battery capacity remaining
	On	10% battery capacity remaining
	Off	Off or Good Battery status

Status Indicator Beeps

Beep Pattern	Meaning
2 beeps (low-high)	Power on
2 beeps (high-low)	Power off
1 beep	Bluetooth connection to host device has begun OR data has been successfully scanned and sent to host device*
2 beeps (same tone)	Bluetooth connection to host device has ended
3 long beeps	Cable disconnected from wrist unit
5 beeps	CRS has detected an error and reset

*Good scan confirmation beep is enabled only in packet mode (default).

Touch Screen Stylus

The CHS features a stylus tip in the tail of the CHS that you can use on Pocket PC and other device touch screens.

WARNING: Do not use the stylus if damaged. A damaged stylus may scratch the display screen of your computer.



The stylus does not work with tablets using Active Matrix displays.

2 | HARDWARE PREPARATION

INSTALLING BATTERIES AND ATTACHING THE TETHER

1. Use a coin or screwdriver to unlock and remove the battery cover. Turn the lock underneath the scanner to a horizontal position.



2. Remove the battery cover.



The Bluetooth Device Address is printed on a label inside the battery compartment. Note the address to help identify your CHS if you plan to use it within range of other CHS devices.

3. If desired, attach the tether. Wrap the string loop around the inside part of the lock.

4. Install the batteries as indicated by the +/- symbols.



***WARNING: Do not install the batteries incorrectly.
Damage may result.***

5. Replace the battery cover and turn the lock to a vertical position to secure it.



6. If desired, attach the tether to a lanyard or belt.



ASSEMBLING THE AC ADAPTER

The AC adapter included with the CHS includes four international plugs. Simply find the correct plug for your region and slide it into the head of the adapter.



CHARGING THE SCANNER

Use the included AC adapter to charge the Cordless Hand Scanner. Alternatively, you can use a charging cradle, car charger, or the Mobile Power Pack (all available separately).

The scanner must be fully charged before its first use. The LED will emit a solid red light while charging, and turn green when the batteries are fully charged.



WARNING: Do not attempt to charge alkaline batteries — this may cause alkaline batteries to leak and damage the CHS.



The red Battery Status LED will not work properly if standard AAA alkaline batteries are being used.



To purchase charging accessories, please visit:
www.socketmobile.com/products/accessories/

3 | SETUP FOR WINDOWS MOBILE

This chapter explains how to install and use the Cordless Hand Scanner (CHS) with the SoMo 650 or other *Bluetooth* enabled Pocket PC or mobile computer running Windows Mobile.

Before you begin the instructions in this chapter, make sure you have installed the batteries (and tether, if desired), and charged the scanner, as described in Chapter 2, "Hardware Preparation."



Setup Summary

- STEP 1: Uninstall other scanning software.
- STEP 2: Install SocketScan and Connect!Agent.*
- STEP 3: Start SocketScan.
- STEP 4: Configure scanner settings.
- STEP 5: Turn on the CHS.
- STEP 6: Connect CHS to host device.
- STEP 7: Start your application.
- STEP 8: Scan bar codes.

Application Features

- Symbology Selector
- Scanner Settings
- Scan Demo
- Connect!Agent Utility

**Note: Software installation is not required for the Socket SoMo 650 handheld computer. However, you may want to update the software if a more recent version of SocketScan or Connect!Agent is available.*

STEP 1: UNINSTALL OTHER SCANNING SOFTWARE

Remove any bar code scanning software already installed on your device.

Note: The SocketScan software pre-installed on the SoMo 650 cannot be uninstalled but can be upgraded.

OPTION 1: Uninstall Directly from the Pocket PC

1. Make sure the bar code scanning software is not running.
2. Tap **Start | Settings**. Tap on the **System** tab or **Control Panel**.
3. Tap on the **Remove Programs** icon.
4. Use the utility to remove the software.

OPTION 2: Uninstall with the ActiveSync

1. Make sure the bar code scanning software is not running.
2. Use ActiveSync and a serial/USB cable or cradle to make an active connection between your device and a host PC.
3. On the host PC, open Microsoft ActiveSync.
4. Click **Tools | Add/Remove Programs**.
5. Use the utility to remove the software.

STEP 2: INSTALL SOCKETSCAN AND CONNECT!AGENT

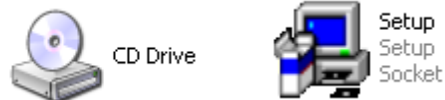
Follow these instructions to install SocketScan and Connect!Agent software into your Pocket PC. Both are required to use the CHS.

1. Use a serial/USB cable or cradle and the appropriate synchronization software (ActiveSync or the Windows Mobile Device Center) to make an active connection between your device and a host PC.



Synchronization software is available free from the Microsoft website.

2. Insert the installation CD into your host PC.
3. Use **My Computer** or **Windows Explorer** to access your CD-ROM drive. In the CD, click on SETUP.EXE.



4. The SocketScan Setup Center will appear in your web browser. Read the first page and click **Installation** in the left margin.



5. In the SocketScan installation page, in the Windows CE section, click **Install** In the first paragraph.



6. Your web browser will present a series of dialogs.

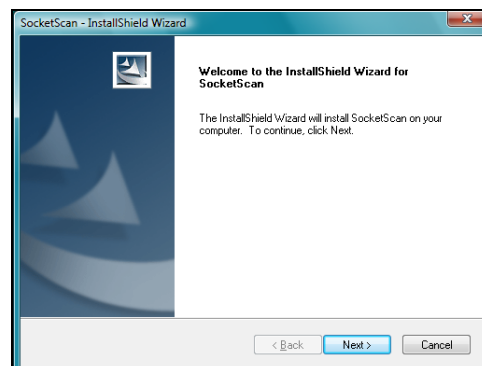
Internet Explorer:

- In the File Download –Security Warning dialog, click **Run**.
- In the second warning dialog, click **Run**.
- Internet Explorer will download the file.

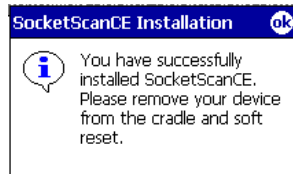
Firefox:

- In the file opening dialog, click **Save File**.
- Firefox will download the file.
- In the Downloads list, next to SocketScanCE.exe, click **Open**.
- In the warning dialog, click **OK** to continue.

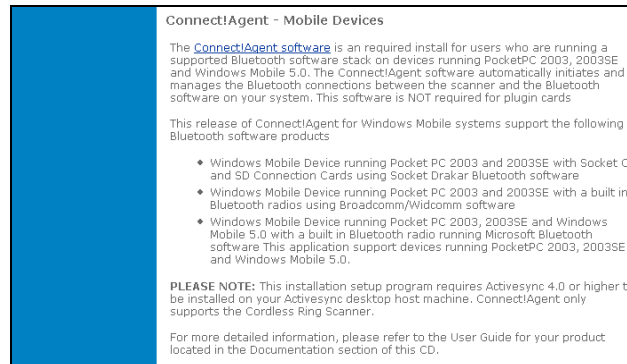
7. The InstallShield Wizard for SocketScan Software will automatically launch. Follow the wizard to install the software.



8. After installing the software, a dialog on your Pocket PC will direct you to soft reset. Tap **ok**.



9. Remove your device from the cable/cradle and perform a soft reset by pressing the reset button. If you skip this step, some icons may not appear correctly.
10. Install Connect!Agent by returning to the SocketScan Setup Center. In the Installation page, scroll down to Connect!Agent – Mobile Devices section and click on the **Connect!Agent software** link there.





IMPORTANT! Both SocketScan and Connect!Agent software must be installed.

STEP 3: START SOCKETSCAN

1. Tap **Start | Programs | SocketScan folder | SocketScan**.



2. When SocketScan is running a SocketScan icon will appear at the bottom of the Today screen.

Icon	Meaning
	No bar code scanner detected
	CHS is connected and ready to scan

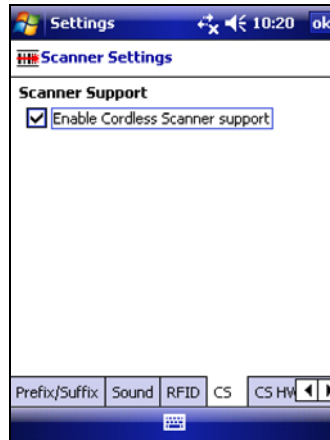
STEP 4: CONFIGURE SCANNER SETTINGS

1. Tap the SocketScan icon  at the bottom of the Today screen. In the pop-up menu, tap **Settings**.

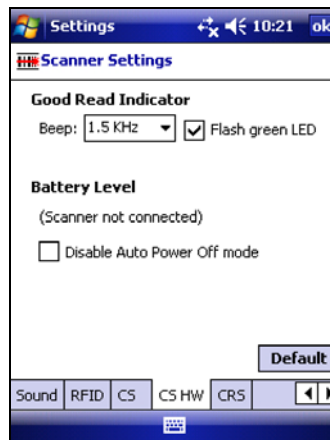


2. The Scanner Settings utility will appear. Tap on the **CS** tab at the bottom of the screen.

3. Check the box **Enable Cordless Scanner support**. **IMPORTANT!!!**



4. Tap on the **CS HW** tab. Enter the following settings:



- **Good Read Indicator:** Select how you would like the CHS to indicate that it has successfully read data.
- **Battery Level:** When the scanner is connected, a progress bar displays this advanced feature.
- **Disable Auto Power Off mode:**

CAUTION: Selecting this option will disable the Auto Power Off mode and can result in complete discharge of the CHS batteries. Use with caution.

5. After entering settings, tap **ok** to save the changes.


STEP 5: TURN ON THE CHS

Press and hold the small power button for 3 seconds, until the LED turns blue and the scanner beeps.

The LED should blink blue once every second to show that the *Bluetooth* radio is on but not connected.

Time after turning on scanner	Bluetooth mode
0-5 minutes	Discoverable and connectable
5-20 minutes	Connectable
20 minutes	Scanner automatically powers off

STEP 6: CONNECT DEVICE TO CHS

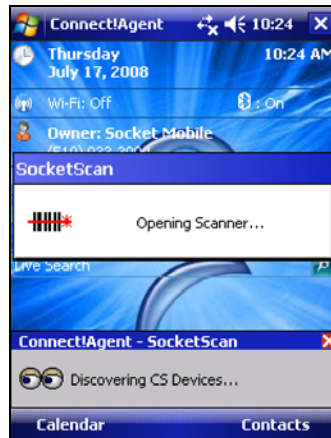
1. Tap on the SocketScan icon  at the bottom of the screen. In the menu, tap **Connect CS**.



*If **Connect CS** does not appear, tap **Settings** in the menu, tap on the **CS** tab, and enable cordless scanner support.*

2. Connect!Agent will automatically turn on the *Bluetooth* radio and begin to search for and connect to the CHS.
 - If this is your first time connecting to a CHS from this device, Connect!Agent will search for any CHS in range.

- If you have previously connected to a CHS, Connect!Agent will automatically search for your favorite (default) device.

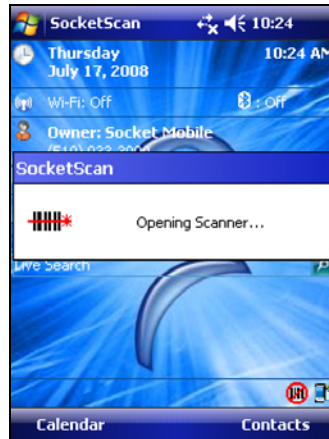


3. If Connect!Agent does not have a favorite scanner, select the one you want to connect to and tap **ok**.



To help you identify the scanner, Connect!Agent reports the Bluetooth Device Address, which is printed on a label inside the battery compartment. The characters in brackets are the last six characters of the address.

4. Connect!Agent will begin connecting to the CHS.



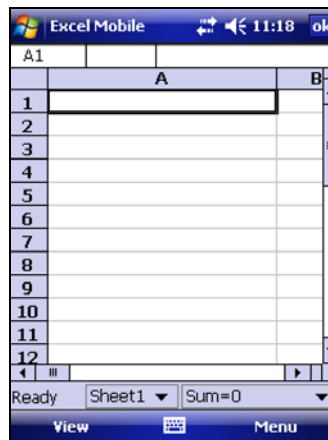
5. After the devices connect, the CHS will beep once. The SocketScan icon at the bottom of the Today screen will change into a scanner icon to indicate the connection.



Connect!Agent will save data to automate future connections to your CHS. To change the favorite scanner, use the Connect!Agent utility (see instructions at the end of this chapter).

STEP 7: START YOUR APPLICATION

1. Start the application that you want SocketScan to feed the bar code data into.



2. Place the cursor where you want data from the next scan to go.

STEP 8: SCAN DATA INTO YOUR APPLICATION

1. Press the trigger button and scan the bar code.



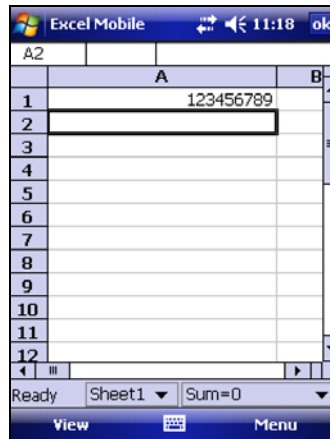
When data is read and sent to device, the scanner will beep once, the LED will flash green, and the beam will turn off.

If no data is read in a few seconds, the scanner beam will turn off, and you must try again.



After you scan a bar code, the CHS will not allow you to scan another bar code for 10 seconds or until the host device confirms receipt of the scanned data.

2. After a successful scan, data should appear in your document. The default "CR" (carriage return) suffix will advance the cursor to the next line or field, ready for the next scan.



Wait for the "Good Scan" indication before you scan another bar code. If you try to scan too fast, the device can lock up until you stop scanning.

SocketScan Auto-Reconnect

If your mobile device suspends or the CHS moves out of range, the connection will end. After the mobile device turns on again or returns in range, SocketScan will try to re-connect for approximately three minutes.



If, after 3 minutes, they have not re-connected, you will need to manually re-connect them by tapping on the SocketScan icon and tapping **Connect CS**.

DISCONNECTING

*To disconnect, tap on the SocketScan icon at the bottom of the Today screen and tap **Disconnect**. Your mobile device will disconnect from the CHS, and Connect!Agent will turn off the Bluetooth radio of your mobile device.*

Turning off the CHS

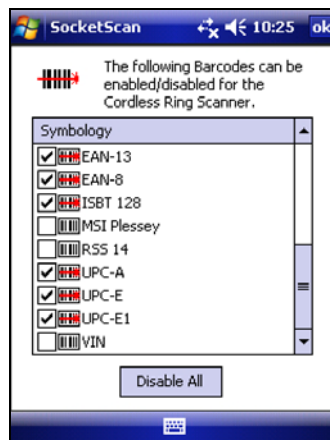
To turn off the CHS, press and hold the power button at least 3 seconds, until the blue LED turns off.

SYMBOLGY SELECTOR

1. Tap on the SocketScan icon. In the pop-up menu, tap **Symbolgy Selector...**



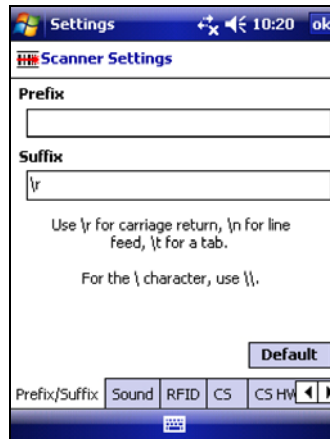
2. In the screen, check the symbologies you wish to enable. Uncheck those you wish to disable. For convenience, you can tap **Disable All** to disable all the symbologies and select the ones you want. Tap **ok**.



Socket does not recommend enabling all possible symbologies. Doing so will make the decode process slightly longer.

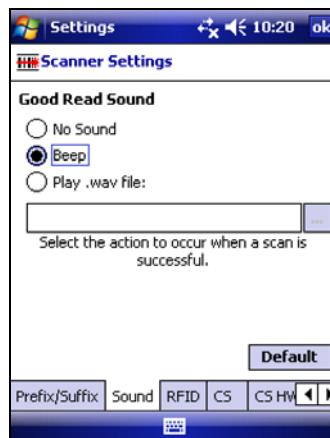
SCANNER SETTINGS

1. Tap on the SocketScan icon. In the pop-up menu, tap **Settings**.
2. Enter characters append to each scan (128 character maximum).



The default suffix, \r, is for a carriage return. Use \n for Linefeed, \t for Tab., \\ for a single \ character. Other characters can be typed or entered using the format \nnn, where nnn = ASCII character 001 - 255.

3. Tap on the **Sound** tab. Select a sound to indicate a good read. If you select **Play .wav file**, tap ... to search for the file (it must be in **My Documents**).



4. Tap **ok**.

SCAN DEMO

Scan Demo makes it easy to determine the symbology, number of characters, and decoded data (in either ASCII or Hex) of any bar code supported by the scanner. This is especially useful if you encounter a bar code that the scanner will not decode by default.

1. Tap **Start | Programs | SocketScan folder | Scan Demo**.



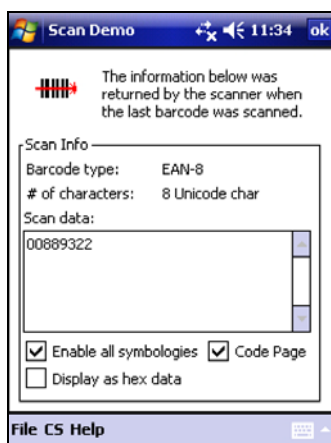
Accessing Scan Demo disconnects the Bluetooth link. If you have not configured the CHS to automatically connect, select the CHS tab at the bottom of the page to re-establish this link.

2. The Scan Demo screen will appear. If desired, use the check boxes at the bottom of the screen to modify the test.

Enable all symbologies: By default, this option is checked. Different symbologies can sometimes interpret the same bar code differently, so you may want to uncheck this option.

Display as hex data: Check this box to view scanned data in hexadecimal format. Otherwise, data will appear as ASCII.

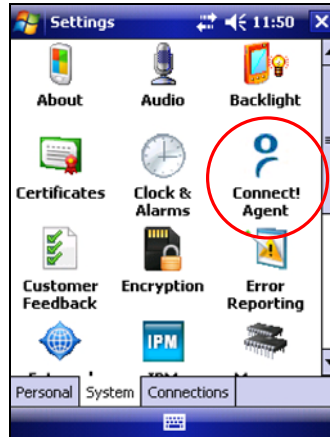
3. Scan the bar code. Scan Demo will report the properties of the bar code.



CONNECT!AGENT UTILITY

The Connect!Agent utility enables you to view and change the default Socket *Bluetooth* peripherals for Connect!Agent.

1. Tap **Start | Settings | System tab | Connect!Agent**.



2. The Connect!Agent utility lists the cordless bar code scanner it has saved as a favorite device. Connect!Agent will automatically try to connect to this device when SocketScan starts.



Note: Besides SocketScan, the Connect!Agent utility can save a favorite cordless bar code scanner for Scan Demo.

3. If you wish to remove a device from the partnership list, select the device and tap **Delete**. In the confirmation screen, tap **Yes**.



DUAL DEVICE SUPPORT

SocketScan versions 7.2.4 and later support the simultaneous use of a cordless and a plug-in Socket data collection device with the same computer.

Simply connect or plug in each device as normal. Each device will function normally. No extra configuration is required.

The SocketScan menu will list both devices, with a checkmark next to the active device. Additionally, the Symbology Selector menu option will have a submenu for you to choose which device to choose symbologies for.



4 | SETUP FOR THE INTERMEC CK30

This chapter explains how to install and use the Cordless Hand Scanner (CHS) with the Intermec CK30 mobile computer, which runs the Windows CE.NET operating system.

Before you begin the instructions in this chapter, make sure you have installed the batteries (and tether, if desired), and charged the scanner, as described in Chapter 2, "Hardware Preparation."



Setup Summary

- STEP 1: Install Connect!Agent and SocketScan.
- STEP 2: Turn on the CHS.
- STEP 3: Connect CHS to CK30.
- STEP 4: Open your application.
- STEP 5: Scan data into your application.

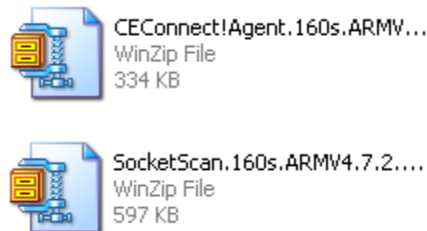
Application Features

- Symbology Selector
- Prefixes/suffixes
- Power settings

STEP 1: INSTALL CONNECT!AGENT AND SOCKETSCAN

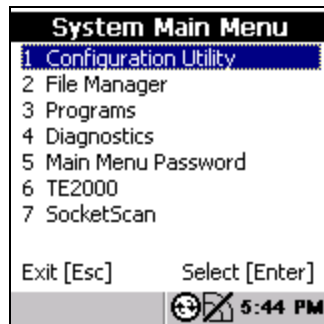
You must install both SocketScan and Connect!Agent.

1. Use ActiveSync (4.0 or greater), the Windows Mobile Device Center (for Windows Vista) or another method to copy the **CEConnect!Agent.160s.ARM...** and **SocketScan.160s.ARM...** CAB files from the 160s folder in the installation CD and paste them into the CK30. Refer to your CK30 manual for instructions.



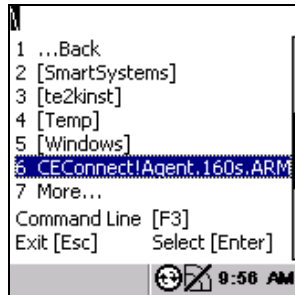
Remember where you save the CAB files in the CK30. For example, you may want to save the files in the My Documents folder.

2. After copying the CAB files into the CK30, push the green button then the orange button on the CK30 to access the System Main Menu.
3. In the System Main Menu, press **2 File Manager**.

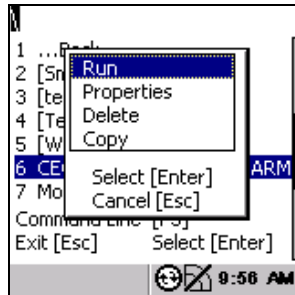


4. Navigate to the location where you saved the CAB files.

5. Select the **CE.Connect!Agent.160s.ARM...** CAB file and press the **Enter** button on the right side.



6. In the options window, select **Run** and press the **Enter** button on the right side.



7. Follow the instructions on your screen to install Connect!Agent.
8. After you finish Connect!Agent installation, navigate to where you saved the CE.SocketScan.160s.ARM... CAB file and run it.

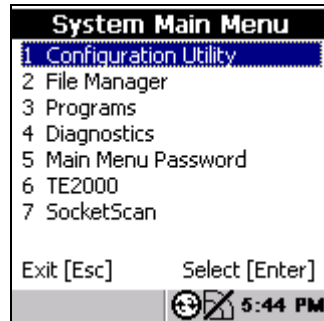
STEP 2: TURN ON THE CHS

Press and hold the small power button for 3 seconds, until the LED turns blue and the scanner beeps. The LED should blink blue once per second to show that the *Bluetooth* radio is on but not connected.

Time after turning on scanner	Bluetooth mode
0-5 minutes	Discoverable and connectable
5-10 minutes	Connectable
10-20 minutes	Not discoverable or connectable
20 minutes	Scanner automatically powers off

STEP 3: START SOCKETSCAN

1. On the CK30, press the green button and then the orange button to access the System Main Menu.
2. In the System Main Menu, press **7 SocketScan**.



STEP 4: CONNECT CK30 TO CHS

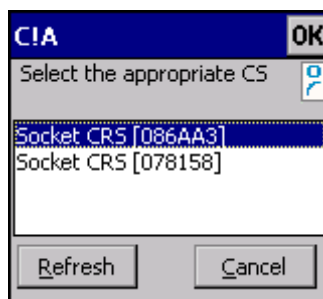
1. In the SocketScan menu, press **1 Connect Cordless Scanner**.



2. Connect!Agent will automatically turn on the *Bluetooth* radio and begin to search for and connect to the CHS.



- If this is your first time connecting to a CHS from this CK30, Connect!Agent will begin searching for any CHS in range.
 - If you have previously connected to a CHS, Connect!Agent will begin searching for the last one you connected to.
3. If Connect!Agent does not have a favorite scanner and finds multiple CHS devices in range, select the one you want to connect to and press the **Enter** button on the right side.



The characters in brackets are the last six characters of the Bluetooth Device Address, which is printed on a label inside the battery compartment.

4. Connect!Agent will begin connecting to the CHS.
5. After the CK30 connects to the CHS, the CHS will beep once, and the bottom of the screen will report, "CHS connected."
6. In the SocketScan menu, press **6 Hide SocketScan**.



IMPORTANT! Do not press the Esc button, or you will close SocketScan and won't be able to scan bar codes into the CK30.

STEP 5: OPEN YOUR APPLICATION

1. Start the Windows application that you want to receive the data (e.g., Word Pad). Make sure a document is open.
2. Place the cursor where you want data from the next scan to go.

STEP 6: SCAN DATA INTO YOUR APPLICATION

1. Press the trigger button and scan the code.



When data is read and sent to the CK30, the scanner will beep once, the LED will flash green, and the beam will turn off.

If no data is read in a few seconds, the scanner beam will turn off, and you must try again.



After you scan a bar code, the CHS will not allow you to scan another bar code for 10 seconds or until the host device confirms receipt of the scanned data.

2. After a successful scan, data should appear in your document. For example, after you scan a bar code into a spreadsheet, data should appear in the first cell. The default "CR" (carriage return) suffix will advance the cursor to the next cell, ready for the next scan.

Wait for the "Good Scan" indication before you scan another bar code. If you try to scan too fast, the device can lock up until you stop scanning.

SocketScan Auto-Reconnect

If your CK30 suspends or the CHS moves out of range, the connection will end. After the mobile device turns on again or returns in range, SocketScan will try to re-connect for approximately 3 minutes. If, after 3 minutes, they have not re-connected, you will need to manually re-connect them.

DISCONNECTING

In the SocketScan menu, press **2 Disconnect Cordless Scanner**.

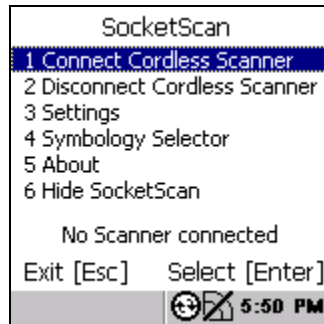
Turning off the CHS

To turn off the CHS, press and hold the power button at least 3 seconds, until the blue LED turns off.

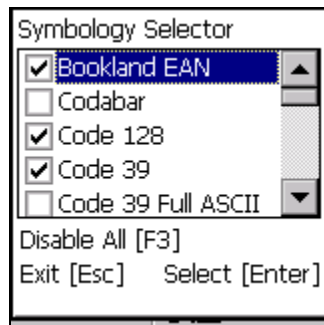
SYMBOLGY SELECTOR

The SocketScan utility makes it easy to choose which symbologies you want the scanner to recognize.

1. In the SocketScan menu, press **4 Symbology Selector**.



2. In Symbology Selector, press the arrow buttons to scroll through the list. To enable/disable a symbology, select it from the list and press the **Enter** button on the right side. For convenience, you can press **F3** to disable all the symbologies, and later select the ones you want.



3. After making all of your selections, press **Esc** to exit Symbology Selector.



Enabling all possible symbologies will make the decode process slightly longer.

PREFIXES/SUFFIXES

The SocketScan utility lets you specify prefix and/or suffix characters to be added automatically to the data you scan. This helps to further eliminate manual data entry.

1. In the SocketScan menu, press **3 Settings**.



You can configure prefix/suffixes whether or not the CHS is connected to the CK30.

2. In the Settings menu, press **1 Prefix and suffix**.

```
Settings
1 Prefix and suffix
2 CRS triggers
3 Battery level

Exit [Esc]   Select [Enter]
```

3. In the screen that appears, enter the characters you want to be appended to each scan (128 character maximum).

```
Settings

Prefix
[ ]

Suffix
\r

Exit [Esc]
```

By default, SocketScan enters a carriage return after every data scan.

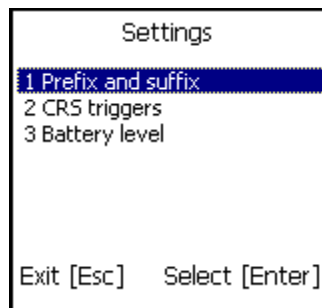
- Use `\r` for Carriage Return, `\n` for Linefeed, `\t` for Tab., `\\` for a single `\` character.
- Other characters can be typed or entered using the format `\nnn`, where `nnn` = ASCII character 001 through 255.

4. When you have finished entering prefixes/suffixes, press **Esc**.

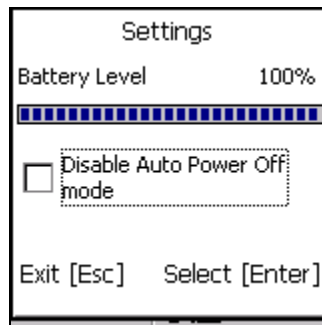
POWER SETTINGS

The SocketScan utility lets you manage the power settings of the CHS.

1. Make sure the CHS is connected to the CK30.
2. In the SocketScan menu, press **3 Settings**.
3. In the Settings menu, press **3 Battery level**.



4. The next screen will report the battery level of the CHS.



Disable Auto Power Off mode:

CAUTION: Selecting this option will disable the Auto Power Off mode and can result in complete discharge of the CHS batteries. Use with caution.

5. Press **Esc** to exit the Battery Level screen.

5 | SETUP FOR WINDOWS XP AND WINDOWS VISTA

This chapter explains how to install and use the Cordless Hand Scanner (CHS) with a *Bluetooth* enabled computer running either of the following operating systems:

- Windows XP Professional/Tablet PC (SP1, SP2, SP3)
- Windows Vista Business/Ultimate (SP1)



Before you begin the instructions in this chapter, make sure you have installed the batteries (and tether, if desired), and charged the scanner, as described in Chapter 2, “Hardware Setup.”

Setup Summary

- STEP 1: Uninstall other scanning software.
- STEP 2: Install SocketScan software.
- STEP 3: Turn on the CHS.
- STEP 4: Start *Bluetooth* on your computer.
- STEP 5: Configure *Bluetooth* settings.
- STEP 6: Start SocketScan.
- STEP 7: Configure scanner settings.
- STEP 8: Connect computer to CHS.
- STEP 9: Open your application.
- STEP 10: Scan data into your application.

Application Features

- Scanner settings.
- Advanced *Bluetooth* settings.
- Remote trigger button.
- Symbology selector
- Version information

STEP 1: UNINSTALL OTHER SCANNING SOFTWARE

Uninstall any bar code scanning software already installed in your computer, including previous versions of SocketScan.

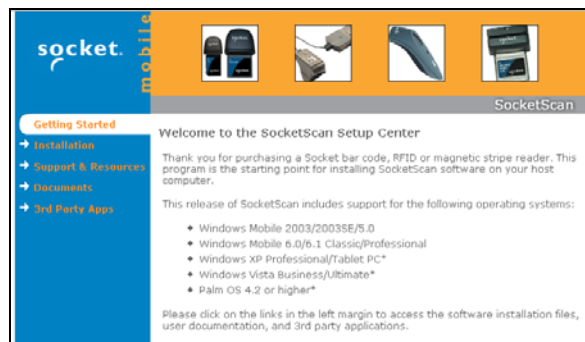
1. Make sure the software is closed.
2. Click **Start | Control Panel**. For Windows Vista, click **Programs and Features**. For Windows XP, click **Add or Remove Programs**.
3. Use the utility to remove the software.

STEP 2: INSTALL THE SOFTWARE

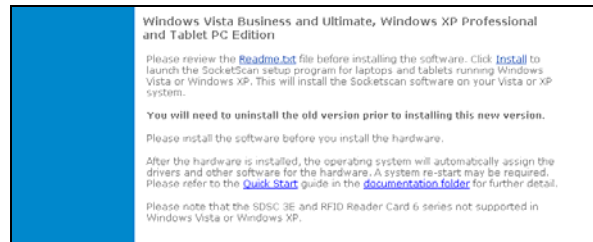
1. If you are using Windows Vista, make sure you have an administrator account.
2. Insert the installation CD into the CD drive of your PC.
3. Use **My Computer** or **Windows Explorer** to access your CD-ROM drive. In the CD, click on SETUP.EXE.



4. The SocketScan Setup Center will appear in your web browser. Read the first page and click **Installation** in the left margin.



5. In the SocketScan Installation page, scroll down to the Windows XP and Windows Vista section and click on the **Install** link there.



6. Your web browser will present a series of dialogs.

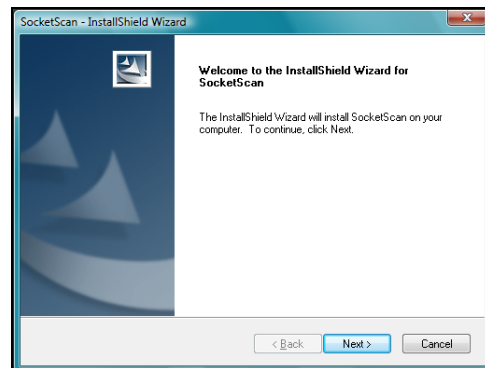
Internet Explorer:

- In the File Download –Security Warning dialog, click **Run**.
- In the second warning dialog, click **Run**.
- Internet Explorer will download the file.

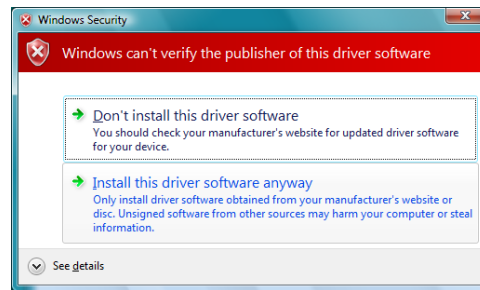
Firefox:

- In the file opening dialog, click **Save File**.
- Firefox will download the file.
- In the Downloads list, next to SocketScan...exe, click **Open**.
- In the warning dialog, click **OK** to continue.

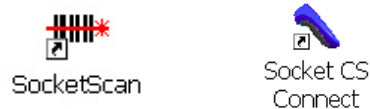
7. The installation wizard will launch. Follow the wizard to install the software.



8. During installation, a message will warn that the software is unsigned.
- Windows XP: Click **Continue Anyway**.
 - Windows Vista: Click **Install this driver software anyway**.



9. After software installation, icons for **SocketScan** and **Socket CS Connect** will appear on your desktop.



10. Restart your computer.

STEP 3: TURN ON THE CHS

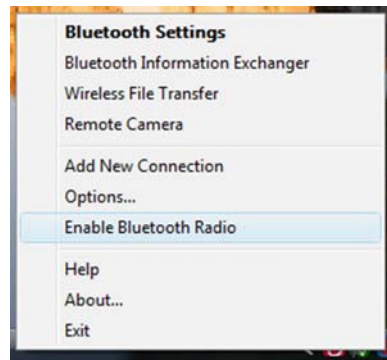
Press and hold the small power button for 3 seconds, until the LED turns blue and the scanner beeps. The LED should blink blue once per second to show that the *Bluetooth* radio is on but not connected.

After the scanner is turned on, its *Bluetooth* mode will change over time if no connection is made.

Time after turning on scanner	<i>Bluetooth</i> mode
0-5 minutes	Discoverable and connectable
5-10 minutes	Connectable
10-20 minutes	Not discoverable or connectable
20 minutes	Scanner automatically powers off

STEP 4: START *BLUETOOTH* ON YOUR COMPUTER

1. If you are using an add-on *Bluetooth* card or adapter, such as the Socket Scanning Companion USB adapter, plug it into your computer.
2. Start your computer's *Bluetooth* software. Please refer to the documentation that came with your *Bluetooth* software for instructions. For some computers, the *Bluetooth* software will automatically launch after you turn on the *Bluetooth* radio.
3. Turn on the *Bluetooth* radio. For some computers, the *Bluetooth* radio must be enabled through the software. Other computers have a hardware switch. Please refer to the documentation that came with your computer's *Bluetooth* hardware for instructions.



Note: The screen above is for the Toshiba Bluetooth stack. Your computer may vary.

STEP 5: CONFIGURE *BLUETOOTH* SETTINGS

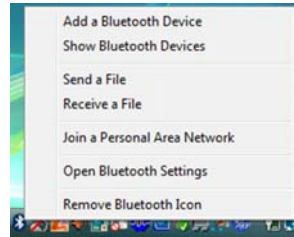
Follow the appropriate instructions for your *Bluetooth* stack. Configuration is only needed the first time you connect the CHS to your PC.

Refer to your *Bluetooth* software manual for full instructions.

SocketScan supports a generic *Bluetooth* COM port and may be able to connect to *Bluetooth* stacks other than those listed.

Microsoft Bluetooth Stack:

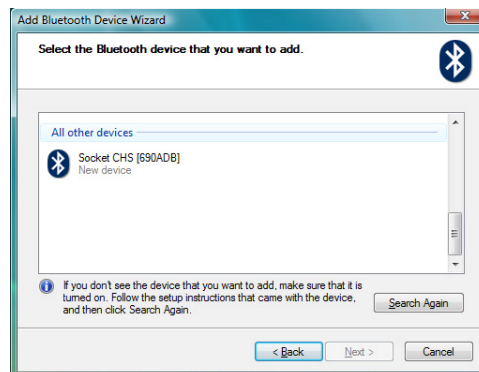
1. Right-click on the *Bluetooth* icon in the task tray. In the pop-up menu, click **Add a Bluetooth Device**.



2. The Add Bluetooth Device Wizard will start. Check the box **My device is set up and ready to be found**. Click **Next**.

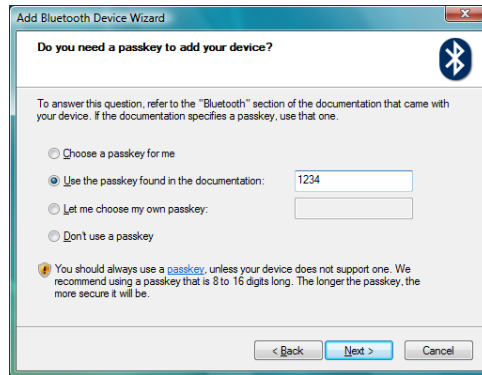


3. After the device search, select **Socket CHS [xxxxxx]**. Click **Next**.

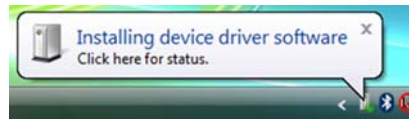


The characters in brackets are the last 6 characters of the scanner's Bluetooth Device Address, which is printed on a label inside the battery compartment.

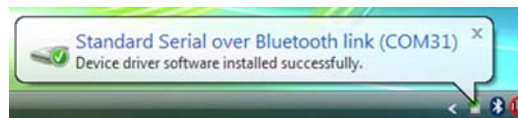
4. In the passkey options screen, select **Use the passkey found in the documentation** and enter the default PIN **1234**.



5. Your computer will exchange passkeys and connect to the CHS. A status balloon will report that device drivers are being installed.



6. After connecting, the CHS will beep once. A status balloon report a *Bluetooth* serial communications link.

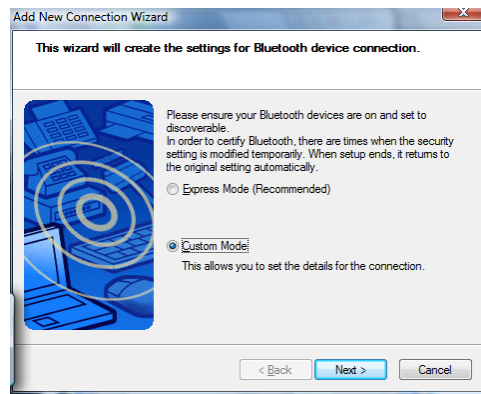


7. In the last screen of the wizard, note the COM number of the **Outgoing COM port** (the one in the status balloon).

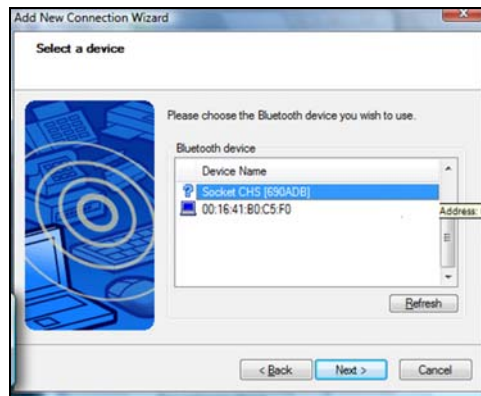


Toshiba Bluetooth Stack:

1. Double-click on the *Bluetooth* icon at the bottom of your screen.
2. In *Bluetooth* Settings, tap **New Connection**.
3. The Add New Connection Wizard will launch. Select **Custom Mode** and click **Next**. The tablet will search for *Bluetooth* devices in range.



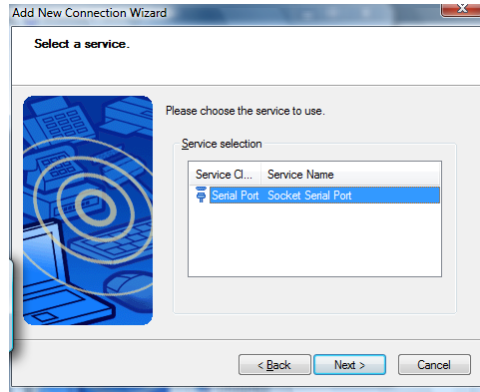
4. In the list of devices, select **Socket CHS [xxxxxx]**. Click **Next**.



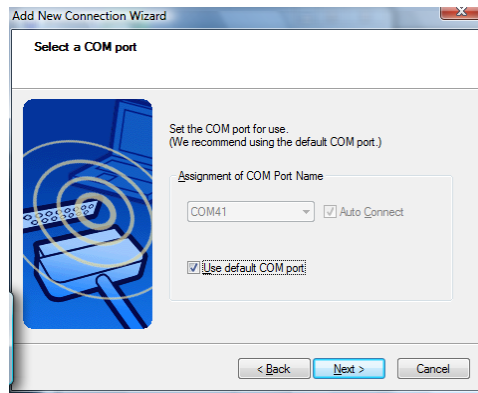
The characters in brackets are the last 6 characters of the scanner's Bluetooth Device Address, which is printed on a label inside the battery compartment.

5. If a passkey is requested, enter the default PIN **1234**. Click **OK**. To indicate the connection, the CHS will beep once.

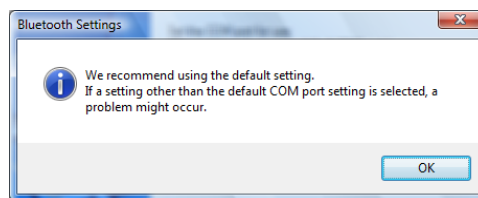
6. In the list of device services, select **Serial Port**. Click **Next**.



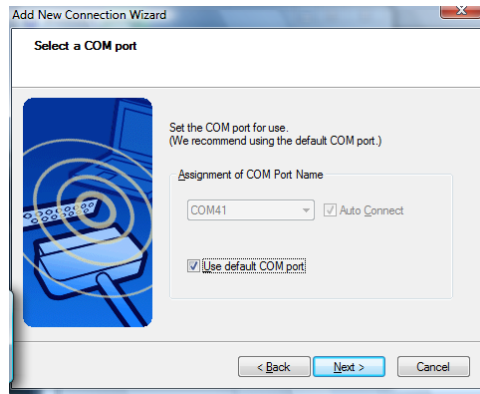
7. In the next screen, uncheck **Use default COM port**. Click **Next**.



8. The software will report that the default setting is recommended. Click **OK**.

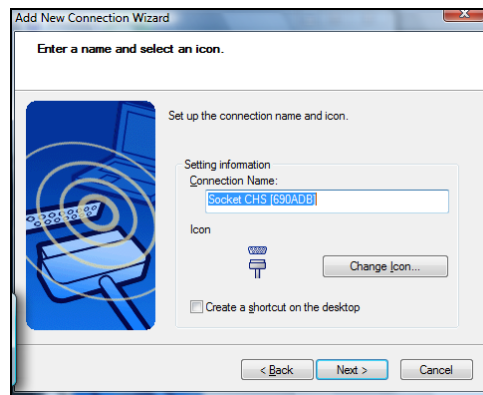


9. Select another COM port. If desired, check **Auto Connect**. Click **Next**.



WARNING! Do not select a COM port that is used by another device on your system!

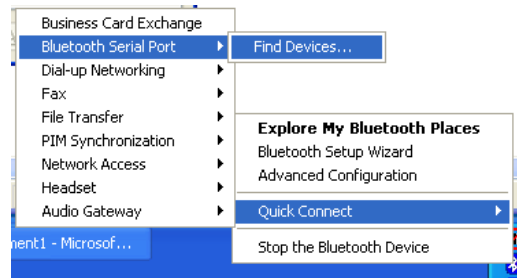
10. After the wizard reports that COM port selection is complete, remember the COM port number and click **Next**.
11. In the next screen, edit the connection name and/or icon if desired and click **Next**.



12. In the last screen, click **Finish**.

Broadcom (Widcomm) Bluetooth Stack:

1. Perform a Quick Connect to a *Bluetooth Serial Port*. Click the *Bluetooth* icon in the task tray. Click **Quick Connect | Bluetooth Serial Port | Find Devices**.



It is essential to connect to the CHS via Quick Connect because this sets the CHS as your default Bluetooth serial device.

2. During the device search, the CHS will appear as **Socket CHS [xxxxxx]**. The characters in brackets are the last 6 characters of the scanner's *Bluetooth* Device Address, which is printed on a label inside the battery compartment.
3. If a passkey is requested, enter **1234**. To indicate the connection, the CHS will beep once.

By default, the Bluetooth software will ask you for the passkey each time you connect.


To stop the automatic prompts, under Advanced Configuration, disable the Secure Connection requirement for both the Local Service and Client Application, then unpair the devices. Refer to the documentation for your Bluetooth hardware/software for complete instructions.

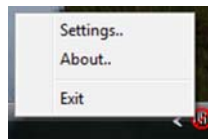
STEP 6: START SOCKETSCAN

Double-click on the SocketScan icon on your desktop.



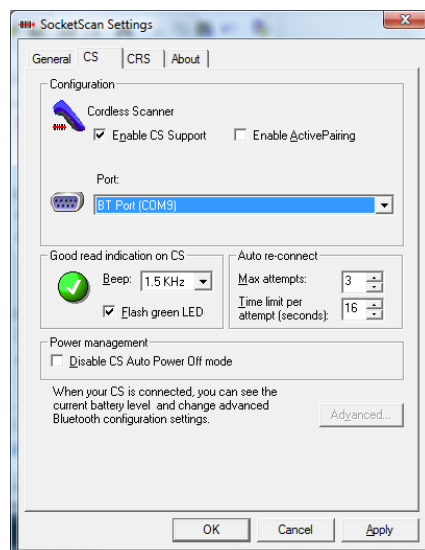
STEP 7: CONFIGURE SCANNER SETTINGS

1. Click the SocketScan icon  in the task tray at the bottom of the screen. In the pop-up menu, click **Settings**.



*If the Settings option does not appear, click **Start | Control Panel | SocketScan Settings**. In the General tab, select "Display 'Settings' option in the SocketScan tray icon menu."*

2. Tap on the **CS** tab. Select Enable CS Support. **IMPORTANT!!!**
3. More fields will appear. Enter the following settings:
 - **Enable ActivePairing**: Check if you want to use ActivePairing. For instructions, refer to the end of this chapter.



- **Port:** Select the outgoing COM port number for the CHS.
- **Good read indication on CS:** Select how you would like the CHS to indicate that it has successfully read data.
- **Auto re-connect:** Select the maximum number of attempts and time limit per attempt for the CHS to try to reconnect to your computer in case they are moved out of range from each other.
- **Power management: Disable CS Auto Power Off mode**

CAUTION: Selecting this option will disable the Auto Power Off mode and can result in complete discharge of the CHS batteries. Use with caution.

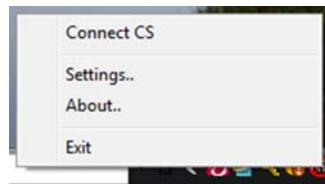
Note: You must disable CS Auto Power Off mode if you would like the CHS to automatically reconnect to the computer after losing a connection.

- **Advanced:** When the PC is connected to the CHS, you can modify the *Bluetooth* friendly name and security settings of the CHS. Please refer to the instructions later in this chapter.
- **Battery Level:** When the scanner is connected, a progress bar will show the scanner's battery level.

4. After entering settings, click **OK** to save the changes.

STEP 8: CONNECT COMPUTER TO CHS

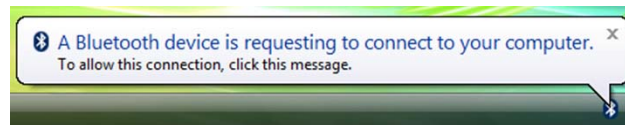
1. Right-click the SocketScan icon at the bottom of the screen and click **Connect CS**.



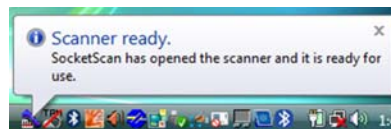
After you configure the correct Bluetooth hardware settings in SocketScan, the **Connect CS** menu option allows you to connect to the CHS directly from SocketScan, instead of manually connecting via your Bluetooth software.

The **Connect CS** option will not appear unless you checked the box **Enable CS Support** in the SocketScan settings.

2. If you are using the Microsoft Bluetooth stack, a balloon will report that a device is requesting to connect. Click on the balloon. As prompted, enter the passkey **1234** to connect.



3. SocketScan will begin to connect to the CHS. A status balloon will report that SocketScan is opening the scanner.
4. After they connect, the CHS will beep, and the task tray icon will change to an image of a scanner. A status balloon will report that the scanner is ready to use.



STEP 9: OPEN YOUR APPLICATION

1. Start the application that you want SocketScan to feed scanned data into. Make sure a document or spreadsheet is open.

If you scan into Microsoft Word, if the first character of scanned data is a letter, it will be capitalized by default.

2. Place the cursor where you want data from the next scan to be entered.

STEP 10: SCAN DATA INTO YOUR APPLICATION

1. Press the trigger button and aim the scanner at the bar code. The red scanner beam should cover the entire width of the bar code. See Chapter 1 for scanning tips.



When data is read and sent to the computer, the scanner will beep once, the LED will flash green, and the beam will turn off. If no data is read in a few seconds, the beam will turn off, and you must try again.



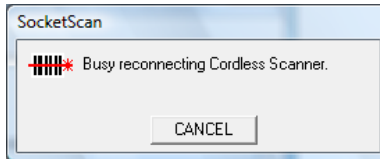
After you scan a bar code, the CHS will not allow you to scan another bar code for 10 seconds or until the host device confirms receipt of the scanned data.

2. After a successful scan, data should appear in your document. By default, the cursor automatically advances to the next cell or line, ready for the next scan.

Wait for the "Good Scan" indication before scanning another bar code. If you scan too fast, the device can lock up until you stop scanning.

SocketScan Auto-Reconnect

If your computer suspends or the CHS is moved out of range, the connection will be lost. After the computer turns on again or returns in range, SocketScan will try to re-connect according to the "auto re-connect" settings you chose in SocketScan.



After the time limit for re-connection attempts has passed, you can click on the Socket CS Connect icon on the desktop to manually initiate re-connection.



By default, CS Auto Power off mode is enabled. This mode must be disabled in order to enable automatic reconnections.

DISCONNECTING

To disconnect, click on the SocketScan icon. In the menu, click **Disconnect CS.**

Turning off the CHS

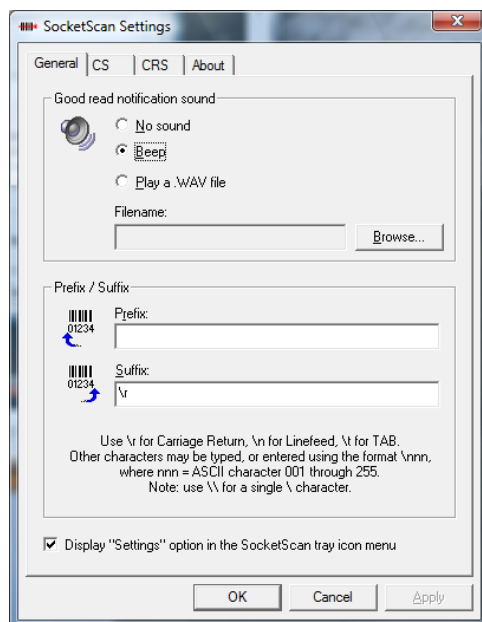
To turn off the CHS, press and hold the power button for at least 3 seconds, until the blue LED turns off.

SCANNER SETTINGS



You can configure these settings whether or not the CHS is connected to your computer.

1. In SocketScan Settings, click on the **General** tab.



2. Adjust any settings as desired:

Good read notification sound: Select a sound to indicate good reads of data. By default, the computer will beep. If you would like the computer to play a .WAV file, select **Play a .WAV file** and click **Browse** to select the file location.

Prefix/Suffix: Enter any prefixes and/or suffixes you would like SocketScan to automatically add to scanned data (128 character maximum, printable ASCII characters only). By default, SocketScan will enter a carriage return after every data scan.

Display “Settings” option in the SocketScan tray icon menu: Check this box to display the “Settings” option in the SocketScan menu.

3. After adjusting any settings, click **OK**.

ADVANCED *BLUETOOTH* SETTINGS

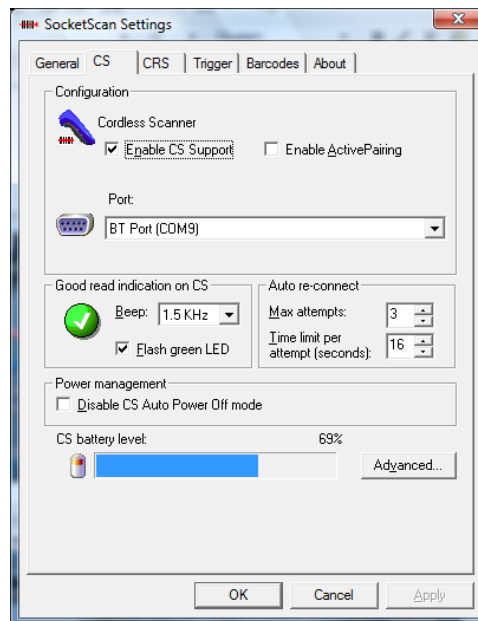
The SocketScan utility enables you configure advanced *Bluetooth* settings of the CHS, including the *Bluetooth* friendly name and security settings.

1. In SocketScan Settings, click on the **CS** tab.



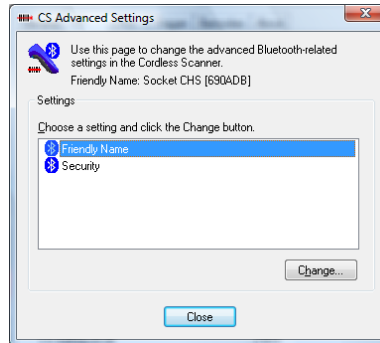
*The **Trigger** and **Barcodes** tabs will only appear if you are connected to the CHS.*

2. At the bottom of the CS screen, the CHS battery level will be indicated by a status bar. Click **Advanced**.



3. The CHS Advanced Settings screen will appear, reporting the current *Bluetooth* friendly name assigned to the CHS.

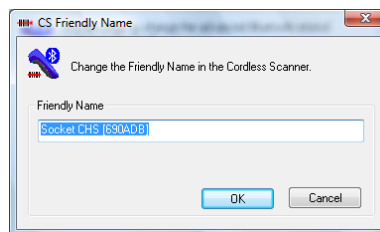
4. If desired, select **Friendly Name** or **Security** and click **Change**.



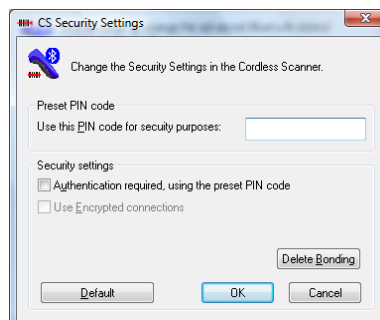
5. In the screen that appears, enter any changes and click **OK**.

CHS Friendly Name: Enter a new friendly name and click **OK**.

IMPORTANT! Make sure the friendly name includes the string "CHS" if you plan to also use the CHS with a Windows Mobile powered device. Otherwise, Connect!Agent will not be able to find the CHS.

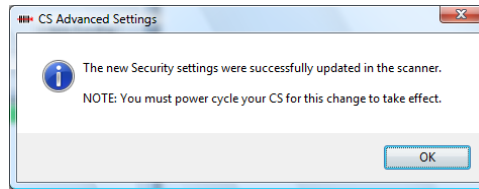


CHS Security Settings: If enabled, the default security PIN code is **1234**. A new 4 digit PIN can be entered, but it must be entered manually for each connection. The PIN is used to authenticate the device to the host every time it connects.



If desired, click **Delete Bonding** to delete any bonding/pairing information in the CHS. After making any changes, click **OK**.

6. If you modified any security settings, you will be prompted to turn your CHS off and back on to make the changes take effect. Read the message and click **OK**. Turn the CHS off and back on again.



7. When you return to the CHS Advanced Settings screen, click **Close**.
8. In the SocketScan Settings screen, click **OK**.

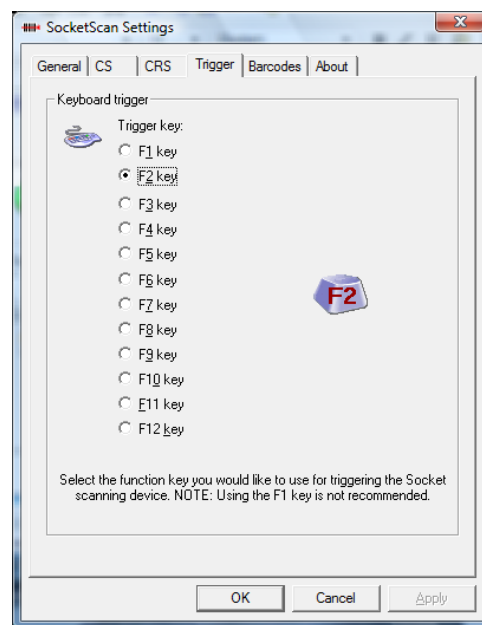
REMOTE TRIGGER BUTTON

The SocketScan utility enables you to assign one of your computer's function keys to trigger the CHS.

1. In SocketScan Settings, click on the **Trigger** tab.



*The **Trigger** and **Barcodes** tabs will only appear if you are connected to the CHS.*



2. Select the function key you would like to use as a trigger key. Click **OK**.

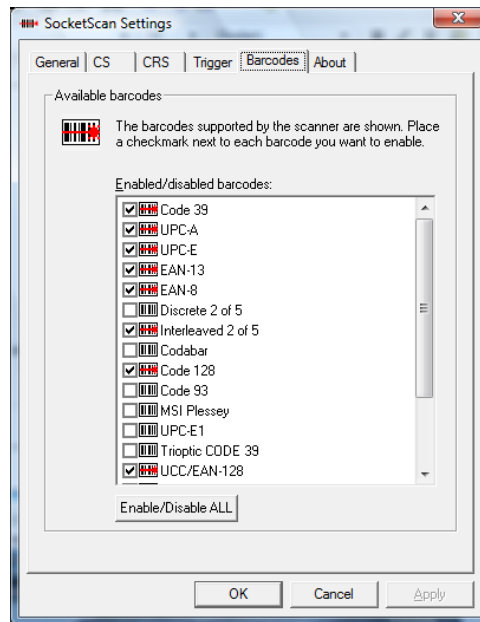
SYMBOLGY SELECTOR

The SocketScan utility makes it easy to modify which symbologies you want the scanner to recognize and decode.

1. In SocketScan Settings, click on the **Barcodes** tab.



*The **Trigger** and **Barcodes** tabs will only appear if you are connected to the CHS.*



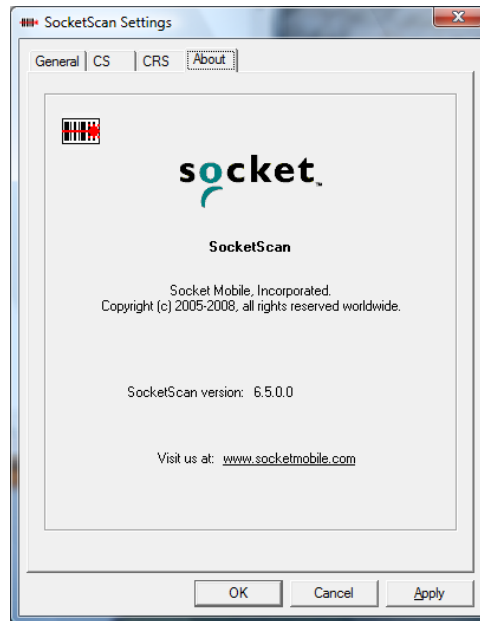
2. Check the symbologies you wish to enable. Uncheck those you wish to disable. Click **OK**.



Enabling all possible symbologies will make the decode process slightly longer.

VERSION INFORMATION

1. In SocketScan Settings, click on the **About** tab.
2. View the version information. If the PC is connected to a CHS, the control panel applet (CPL) and CHS firmware version will appear. Click **OK**.



DUAL DEVICE SUPPORT

SocketScan versions 6.4.2 and later support the simultaneous use of two Socket data collection devices from the same PC.

SocketScan can capture data from one cordless scanner at a time.

Simply connect or plug in each device as you normally would. The functionality of each device is the same. No extra configuration is required.

You can configure each device separately. In the SocketScan menu, click the Settings option will have a submenu for you to choose which device to configure.

6 | SETUP FOR PALM OS

This chapter explains how to install and use the Cordless Hand Scanner (CHS) with a *Bluetooth* enabled device running Palm OS 5.2 or later.

Before you begin the instructions in this chapter, make sure you have installed the batteries (and tether, if desired), and charged the scanner, as described in Chapter 2, “Hardware Setup.”




Setup Summary

- STEP 1: Uninstall other scanning software.
- STEP 2: Install SocketScan software.
- STEP 3: Turn on the CHS.
- STEP 4: Start SocketScan
- STEP 5: Connect PDA to CHS.
- STEP 6: Open your application.
- STEP 7: Scan data into your application.

Application Features

- Scanner settings
- Symbology Selector
- Scan Test



For help using SocketScan, tap on the  button on the top of any screen.

STEP 1: UNINSTALL OTHER SCANNING SOFTWARE

Uninstall any bar code scanning software already installed in your device, including previous versions of SocketScan.

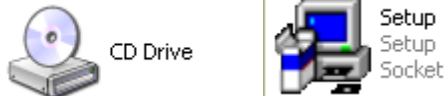
1. Make sure the software is not running.
2. Tap **Home**, then tap **Menu**.
3. In the App menu, tap **Delete**.
4. Use the utility to uninstall the bar code scanning software.

STEP 2: INSTALL SOCKETSCAN SOFTWARE

1. Use HotSync and a serial/USB cable or cradle to connect your device to a host PC.



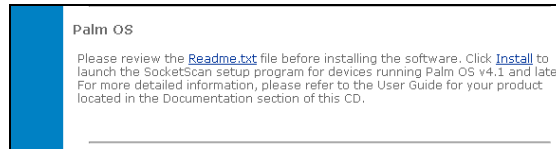
2. Insert the installation CD into your host PC.
3. Use **My Computer** or **Windows Explorer** to access your CD-ROM drive. In the CD, click on SETUP.EXE.



4. The SocketScan Setup Center will appear in your web browser. Read the first page and click **Installation** in the left margin.



5. In the SocketScan Installation page, scroll down to the Palm OS section and click the **Install** link there.



6. Your web browser will present a series of dialogs.

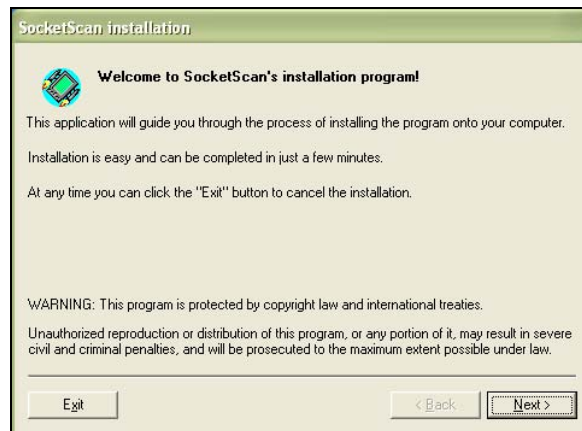
Internet Explorer:

- In the File Download –Security Warning dialog, click **Run**.
- In the second warning dialog, click **Run**.
- Internet Explorer will download the file.

Firefox:

- In the file opening dialog, click **Save File**.
- Firefox will download the file.
- In the Downloads list, next to SocketScanCE.exe, click **Open**.
- In the warning dialog, click **OK** to continue.

7. The SocketScan Installation program will begin. Follow the instructions on your screen to install the software.



8. When software installation is complete, disconnect the device from the host PC. Soft reset the device by pressing the reset button.

STEP 3: TURN ON THE CHS

Press and hold the small power button for 3 seconds, until the LED turns blue and the scanner beeps. The LED should blink blue once every second to show that the *Bluetooth* radio is on but not connected.

Time after turning on scanner	<i>Bluetooth</i> mode
0-5 minutes	Discoverable and connectable
5-10 minutes	Connectable
10-20 minutes	Not discoverable or connectable
20 minutes	Scanner automatically powers off

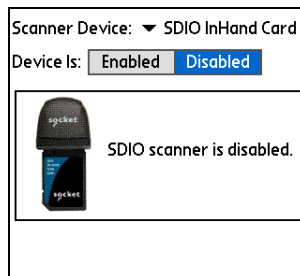
STEP 4: START SOCKETSCAN

1. Tap **Home**.
2. In the upper right corner, make sure **All** is selected.
3. Scroll down and tap on the **SocketScan** icon.

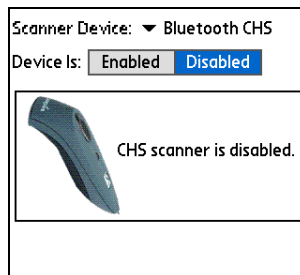


STEP 5: CONNECT CHS TO PDA WITH BLUETOOTH

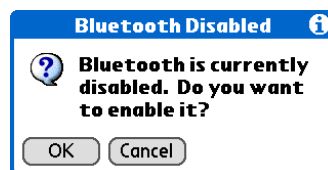
1. After you start SocketScan, the main screen of SocketScan will appear, showing a picture of the Socket SD Scan Card. In the **Scanner Device** drop-down menu, select **Bluetooth CHS**.



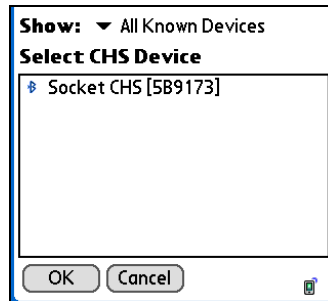
2. The screen will display a picture of the Cordless Hand Scanner. In the **Device is** field, tap **Enabled**.



3. If you have not yet enabled your *Bluetooth* hardware, a message will ask if you wish to do so. Tap **OK**.



4. Your device will begin searching for *Bluetooth* enabled devices in range. After it finishes searching, select the **Socket CHS** from the list of discovered devices and tap **OK**.

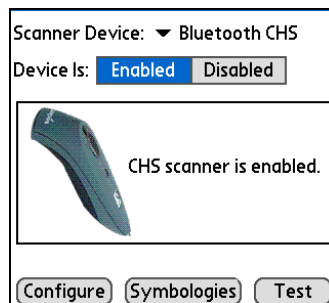


Note: The characters in brackets are the last 6 characters of the scanner's Bluetooth Device Address, which is printed on a label inside the battery compartment.

5. Your device will connect to the CHS. If a passkey is requested, enter **1234**.



6. When the devices connect, the CHS will beep once. The main screen of SocketScan will report that the CHS is enabled, and the **Configure**, **Symbologies**, and **Test** buttons will appear.



If the PDA suspends, the CHS will automatically re-connect once you turn on the PDA again.



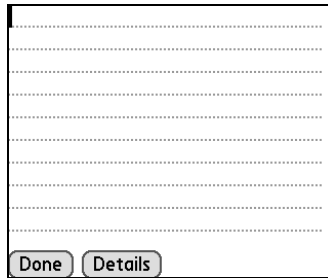
If the CHS is taken out of range, or if the Bluetooth connection is otherwise lost, to resume operation you must enable it again in SocketScan.



For more information about the meanings of LEDs and beeps, please see Chapter 1.

STEP 6: OPEN YOUR APPLICATION

1. Start the Palm application that you want to receive the data (e.g., Memo). Make sure a document or spreadsheet is open.



Note: You cannot scan data into Palm Note Pad, because it is a graphics-based program.

2. Place the cursor where you want data from the next scan to enter.

STEP 7: SCAN DATA INTO YOUR APPLICATION

1. Press the trigger button and scan the bar code.



When data is read and transmitted to the host, the scanner will beep once, the LED will flash green, and the beam will turn off.

If the Scanner fails to read data within a few seconds, the scanner beam will turn off, and you must try again.

2. After a successful scan, data should appear in your document. For example, after you scan a bar code into a Memo, data should appear in the first line. The default "CR" (carriage return) suffix will advance the cursor to the next line, ready for the next scan.

A screenshot of a document editor interface. The first line of the document contains the scanned barcode number '12345678'. Below this line are several empty lines for text entry. At the bottom of the editor, there are two buttons: 'Done' and 'Details'.

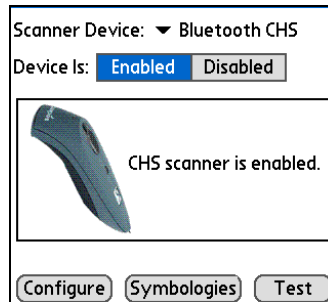
Wait for the "Good Scan" indication before you scan another bar code. If you try to scan too fast, the device can lock up until you stop scanning.

Turning off the CHS

To turn off the CHS, press and hold the power button for at least 3 seconds, until the blue LED turns off.

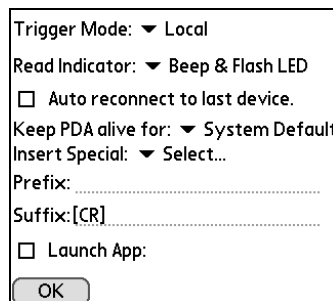
SCANNER SETTINGS

1. Make sure the main screen of SocketScan reports that the CHS is enabled. Tap **Configure**.



TIP You can configure prefix/suffixes whether or not the CHS is connected to your device.

2. The Configure screen will appear. Enter any settings, as desired:



- **Trigger Mode:** Select **Local** to directly trigger the scanner whenever you press the trigger button. Select **Remote** to have the scanner verify a connection to your PDA before it activates the scanner beam.
- **Read Indicator:** Select how you would like the CHS to indicate that data was successfully decoded and transmitted to the PDA.
- **Auto reconnect to last device:** Check to have your PDA automatically connect to the last CHS unit it connected to whenever you tap **Enabled** in the main screen of SocketScan.

- **Keep PDA alive for:** Select how long you would like the PDA to stay alive after the last scan. This feature allows you to scan data for several hours without touching the PDA, as long as you scan at least once before the time limit passes. Select **System Default** to keep your PDA alive for the amount of time set as default in the PDA's system settings.
- **Insert Special:** First tap in the **Prefix** or **Suffix** field to indicate where you would like to enter special data, such as a date stamp, time stamp, tab, etc. Then tap on the Insert Special drop-down menu and select the type of special data to enter.

Trigger Mode: ▼ Remote
 Read Indicator: ▼ Beep
☒ Auto reconnect to last device.
 Keep PDA alive for: ▼ 5 Minutes
 Insert Special: ▼ Select...
 Prefix: [DTS][TAB]
 Suffix: [CR]
☒ Launch App: ▼ Memos-PMem
 OK

- **Prefix:** Tap to enter characters you would like appended before scanned data (128 character maximum). Besides special data items, only printable ASCII characters can be used.
- **Suffix:** Tap to enter characters you would like appended after scanned data (128 character maximum). Besides special data items, only printable ASCII characters can be used. The default suffix is a carriage return [CR].
- **Launch App:** Check the box, then use the drop-down menu that appears to select an application that you would like SocketScan to automatically enter data into whenever you press the trigger button. The application will launch only when you are outside of SocketScan (i.e., SocketScan is running in the background).



If you configured SocketScan to launch an application, whenever you scan data into a document, the data will only be entered after any existing data, no matter where you place the cursor. You will not be able to scan data into the middle of existing data.

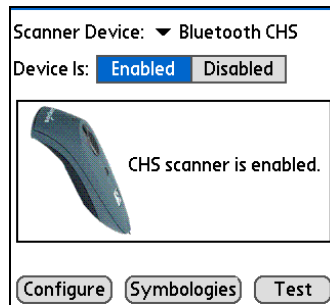
For example, if you already scanned three lines of data into Memo, the next data you scan will appear on the fourth line, even if you place the cursor on a previous line before scanning.

3. After entering any settings, tap **OK** to save the changes.

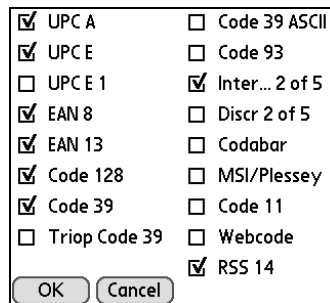
SYMBOLLOGY SELECTOR

The feature makes it easy to modify which symbologies you want the scanner to recognize. By default, the scanner is set to recognize eight of the most common symbologies.

1. In the main screen of SocketScan, tap **Symbologies**.



2. In the screen that appears, check the symbologies you wish to enable. Uncheck those you wish to disable. Tap **OK**.

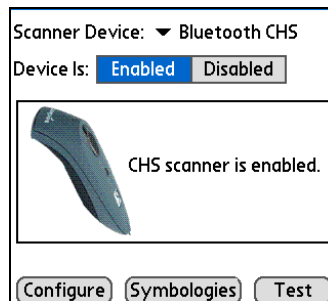


Enabling all possible symbologies will make the decode process slightly longer.

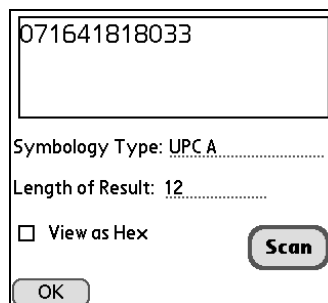
SCAN TEST

SocketScan includes a Test feature that makes it easy to determine the symbology, number of characters, and decoded data (in either ASCII or Hex) of any bar code supported by the scanner. This is especially useful if you encounter a bar code that the scanner will not decode by default.

1. In the main screen of SocketScan, tap **Test**.



2. The Test Scan screen will appear. If desired, check the **View as Hex** box to view scanned data in hexadecimal format. Otherwise, data will appear as ASCII.
3. Scan the bar code. You can either press the trigger button on the CHS, or press the **Scan** button on the screen. SocketScan will report the properties of the bar code.



4. After you complete your testing, tap **OK**.

7 | SETUP FOR RIM BLACKBERRY

This chapter explains how to install and use the Cordless Hand Scanner (CHS) with a RIM BlackBerry® Bold™, Curve™ or Pearl™ Smartphone.

Before you begin the instructions in this chapter, make sure you have installed the batteries (and tether, if desired), and charged the scanner, as described in Chapter 2, “Hardware Setup.”

Setup Summary

- STEP 1: Install SocketScan software.
- STEP 2: Turn on the CHS.
- STEP 3: Pair smartphone with CHS.
- STEP 4: Start SocketScan
- STEP 5: Connect smartphone to CHS.
- STEP 6: Open your application.
- STEP 7: Scan data into your application.

Application Features

- Symbology Selector
- Scanner settings
- Device bonding

Note: The instructions in this chapter are based on a BlackBerry Curve 8320 smartphone. Other BlackBerry smartphones may vary.



STEP 1: INSTALL SOCKETSCAN SOFTWARE

This User's Guide covers two methods for installing SocketScan software: downloading to the smartphone and synchronizing with a desktop PC.

Downloading to the Smartphone

1. Make sure your smartphone is connected to the Internet.
2. Open the Browser and go to:
<http://www.socketmobile.com/blackberry>
3. The SocketScan for BlackBerry installation screen will appear. Read the information in the screen. If you accept the license agreement, click **I Accept**.
4. The download screen will appear. Click **Download**.
5. The smartphone will download and install SocketScan.
6. After installation, a dialog will report that installation was successful. Click **OK**.

Synchronizing with a Desktop PC

Refer to your BlackBerry Desktop Manager manual for complete instructions.

1. Install the SocketScan for BlackBerry Desktop Installer (SocketScanBlackBerry_Installer.exe) on your PC.
2. Use a USB connection cable/cradle to connect the smartphone to the PC.
3. Launch the BlackBerry Desktop Manager.
Click **Start | Programs | BlackBerry | Desktop Manager**.
4. If prompted, enter your password. Click **OK**.
5. Click **Next**.
6. If prompted, enter your password. Click **Next**.
7. Click **Add/Remove Application**.

8. Select the checkbox for **SocketScan** and click **Next**.
9. Click **Finish**.
10. After the software finishes loading, click **Close**.

STEP 2: TURN ON THE CHS

Press and hold the small power button for 3 seconds, until the LED turns blue and the scanner beeps. The LED should blink blue once every second to show that the *Bluetooth* radio is on but not connected.

Time after turning on scanner	<i>Bluetooth</i> mode
0-5 minutes	Discoverable and connectable
5-10 minutes	Connectable
10-20 minutes	Not discoverable or connectable
20 minutes	Scanner automatically powers off

STEP 3: PAIR SMARTPHONE WITH CHS

1. In the Home Screen, click **Set Up Bluetooth**.

If your device does not have the Set Up Bluetooth option, click **Settings** then **Bluetooth**.

2. A dialog will ask you to make sure the *Bluetooth* device is in pairing mode (connectable mode). Click **OK**.
3. Your smartphone will begin searching for *Bluetooth* enabled devices in range.
4. In the list of found devices, click **Socket CHS [xxxxxx]**.



The characters in brackets are the last 6 characters of the scanner's Bluetooth Device Address, which is printed on a label inside the battery compartment.

5. When prompted to enter a numeric passkey, type **1234**.
6. A dialog will report that pairing is complete.

STEP 4: START SOCKETSCAN

1. In the Home Screen, click **SocketScan**.



For some smartphones, the SocketScan icon appears in the Downloads folder. You may want to move it to the Home Screen or into the Applications folder.

2. The SocketScan main screen will appear, with a picture indicating that the smartphone is not connected to the CHS.

STEP 5: CONNECT SMARTPHONE TO CHS

1. Make sure the CHS is still turned on.
2. In the SocketScan menu, click **Connect CS**.
3. A dialog will report that SocketScan is requesting changes to its application control permissions. Click **View**.
4. Accept the default permissions. Click **Allow**. In the Options menu, click **Save**.
5. In the SocketScan main screen, open the SocketScan menu and click **Connect CS**.
6. The smartphone will begin connecting to the CHS.
7. After the smartphone connects to the CHS, the picture on the main screen of SocketScan will change to indicate the connection. A progress bar will also display the battery level of the CHS.

STEP 6: OPEN YOUR APPLICATION

1. Start the application that you want to receive the data (e.g., MemoPad). Make sure a document or spreadsheet is open.



*To quickly change applications, in the SocketScan menu, click **Switch Applications**.*

2. Place the cursor where you want data from the next scan to go.

STEP 7: SCAN DATA INTO YOUR APPLICATION

1. Press the trigger button and scan the bar code.



When data is read and transmitted to the smartphone, the scanner will beep once, the LED will flash green, and the beam will turn off.

If the Scanner fails to read data within a few seconds, the scanner beam will turn off, and you must try again.



TIP

After you scan a bar code, the CHS will not allow you to scan another bar code for 10 seconds or until the smartphone confirms receipt of the scanned data.

2. After a successful scan, data should appear in your document. The default "CR" (carriage return) suffix will advance the cursor to the next line, ready for the next scan.



TIP

Wait for the "Good Scan" indication before you scan another bar code. If you try to scan too fast, the device can lock up until you stop scanning.

DISCONNECTING

To disconnect, in the SocketScan menu, click **Disconnect CHS**.

Turning off the CHS

To turn off the CHS, press and hold the power button for at least 3 seconds, until the blue LED turns off.

SYMBOLGY SELECTOR

The feature makes it easy to modify which symbologies you want the scanner to recognize. By default, the scanner is set to recognize several of the most common symbologies.



You can configure symbologies only when the CHS is connected to your smartphone.

1. In the SocketScan menu, click **Symbology Selector**.
2. In the screen that appears, press the space key to check the symbologies you wish to enable. Uncheck those you wish to disable.
3. In the Options menu, click **Save**.



Enabling all possible symbologies will make the decode process slightly longer.

SCANNER SETTINGS



You can configure scanner settings only when the CHS is connected to your smartphone.

1. In the SocketScan menu, click **Settings**.
2. In the Settings screen, enter any settings, as desired:
 - **Prefix:** Type characters you would like appended before scanned data (100 character maximum). Besides special data items, only printable ASCII characters can be used.
 - **Suffix:** Type characters you would like appended after scanned data (100 character maximum). Besides special data items, only printable ASCII characters can be used. The default suffix is a carriage return [CR].
 - **Beeper Frequency:** Select the frequency of the beep that the CHS emits to indicate good scans, power on/off, connection/disconnection, etc.

- **Good Scan Beep:** Select to have the CHS beep to indicate that data was successfully decoded and transmitted to the smartphone.
 - **Good Scan LED:** Select to have the CHS LED turn green to indicate that data was successfully decoded and transmitted to the smartphone.
 - **Disable Auto Power off:** Select to have the CHS stay on even when there has been no connection to a device for 20 minutes.
3. After entering any settings, in the Options menu, click **Save**.

CS BONDING

This option lets you eliminate the need to enter the passkey every time you connect.

1. In the SocketScan menu, click **CS Bonding**.
2. In the dialog, click **Bond with CS**.
3. A dialog will direct you to enter the passkey the next time you connect to suppress the passkey prompt in the future. Click **OK**.

VERSION INFORMATION

1. In the SocketScan menu, click **About**.
2. A screen will display the SocketScan version number. If the CHS is connected, the CHS firmware version will also be reported.

APPENDIX A

SPECIFICATIONS

Physical Characteristics

Size: 125l x 31h x 35w (mm) 4.9l x 1.2h x 1.4w (in.)

Total Mass: approx. 90 g (0.2 lb)

Power Source: Two AAA NiMH rechargeable batteries

Expected Battery Life with Normal Operation (connected via Bluetooth and minimum 2,000 bar code scans): 8 hours

Environmental Specifications

Operating Temperature:

- CHS 7E: +32 to 140°F (0 to +60°C)
- CHS 7M/7P: -4 to +140°F (-20 to +60°C)

Storage Temperature:

- CHS 7E: -22 to +158°F (-30 to +70°C)
- CHS 7M/7P: -40 to +158°F (-40 to +70°C)

Relative Humidity: 5% to 95% non-condensing

Ambient Light:

- CHS 7E: 0.5 ft candles (5 lux) to 8,000 ft candles (86,112 lux)
- CHS 7M/7P: Sunlight: 10,000 ft candles (107,640 lux);
Artificial light: 450 ft candles (4,844 lux)

Electrical Specifications

Power Source: Two NiMH rechargeable batteries

Expected Battery Life: 14,000+ scans in 19 hours with a *Bluetooth* connection in typical usage conditions

Laser Power (650 nm):

- CHS 7M: 0.7 mW (± 0.1 mW)
- CHS 7P: 1.7 mW (± 0.2 mW)

Operating System Support:

- Windows Mobile 2003, 2003SE, 5.0 for Pocket PC/Pocket PC Phone
- Windows Mobile 6.0 or 6.1 Classic/Professional
- Windows CE.NET for the Intermec CK30
- Windows XP Professional/Tablet PC (SP1, SP2, SP3)

- Windows Vista Business/Ultimate (SP1)
- Palm OS 5.2 and later
- RIM BlackBerry OS for Curve, Bold, Pearl smartphones

For information about using the CHS with Symbian OS, please visit: www.socketmobile.com/products/

2005 Sunrise Date Compliant

Scanning Characteristics

Bar Code Symbolologies Decoded:

- CHS 7E: Code 39, UPC/EAN/JAN, MSI, Code 128, Code 93, Codabar, I 2 of 5, D 2 of 5
- CHS 7M/7P: Code 39, UPC/EAN/JAN, MSI, Code 128, Code 93, Codabar, I 2 of 5, D 2 of 5, RSS-14, RSS Limited/Expanded Stacked, Chinese 2 of 5

Scanner Type:

- CHS 7E: CMOS linear imager
- CHS 7M: Class 1 laser
- CHS 7P: Class 2 laser

Laser Scan Angle: 46.5°

Scan Repetition Rate:

- CHS 7E: Frame rate varies with the amount of ambient light
- CHS 7M/7P: 100 scans/sec (bi-directional)

Optical Resolution:

- CHS 7M/7P: 0.004 inch (0.102 mm) minimum/bar code element width (X Dimension)

Print Contrast:

- CHS 7E: 35% absolute dark/light reflectance (MRD) measured at 675 nm
- CHS 7M/7P: Minimum 25% absolute dark/light reflectance (MRD) measured at 650 nm

Scan Angle:

- CHS 7M/7P: Wide (default): 47° ±3°
Narrow: 35° ±3°

Decode Distance (depends on symbol size, symbology, label media, W-N Ratio, scan angle)

- CHS 7E: 1.5 to 8 inches (3.8 to 20 cm) typical
- CHS 7M: 1.5 to 20 inches (3.8 to 51 cm) typical
- CHS 7P: 1.5 to 45+ inches (3.8 to 144 cm) typical

Bluetooth Characteristics

Interface Standard: Bluetooth Serial Port Profile

Protocol: Bluetooth 2.0 with Enhanced Data Rates (EDR), 2.45 GHz ISM band frequency hopping

Antenna: Integrated

Radio Range: Up to 330 ft (100 m), depending on environment

Connection: Point-to-point

Security: 56 bit encryption

RF Power: Class 1 radio; Typical Output: 12 dbm

Bluetooth Stack Support

Windows Mobile/CE:

- Broadcom 1.5 or greater
- Microsoft *Bluetooth* stack
- Stonestreet One 1.2.4 (Build 1783)

Windows XP and Windows Vista:

- Most *Bluetooth* stacks, including Microsoft, Toshiba, and Broadcom

Certification/Compliance

- CHS 7E: FCC: Part 15, Class B; CE: EN55024:2003; C-TICK: s.182; RoHS; Bluetooth 1.1; Bluetooth QD ID B0164000; ETS 300 328; ETS 300 826
- CHS 7M/7P: Same as 7E plus TELEC, IEC60825-1:1993 +A1:1997 +A2:2001

About Bluetooth Range

The Cordless Hand Scanner features a powerful Class 1 *Bluetooth* radio to provide the maximum possible range. As with all wireless technologies, the connection range can vary widely depending on many factors such as the brand and placement of the host device, the type and size of physical obstacles and the presence and activity level of competing radio transmissions.

In range testing of the CHS while connected to a variety of typical host devices with Class 2 radios, functional connection

distances from 18 to over 100 feet have been experienced depending on the environment. The following conditions appear to reduce the *Bluetooth* connection range:

- The presence of soft, absorbent materials such as paper, fiberglass insulation, foam material in office cubical walls, carpeting and, to a lesser extent, even sheetrock and wood construction materials. Hard materials such as concrete increase the range.
- Human bodies or containers of liquid positioned between the host and the CHS.
- The presence and activity level of competing *Bluetooth* or 802.11 (Wi-Fi) systems using the same 2.4 GHz frequency.
- Metal in a grid pattern, such as chain link fencing or chicken wire. This type of material may block the *Bluetooth* (or Wi-Fi) signal completely.

APPENDIX B

SAFETY AND USAGE TIPS

About Bluetooth and Health

Bluetooth wireless technology allows you to use short-range radio signals to connect a variety of devices, such as bar code scanners, mobile phones, Pocket PCs, notebook computers, printers, LAN access points, and many other devices at home or work. These radio signals replace the cables that have traditionally connected these devices.

Bluetooth products have small radio transmitters and receivers. Output power is normally very low, only 15.75 mW. This gives a working range of approximately 10 meters.

The maximum exposure levels from *Bluetooth* products are far below recommended safety guidelines. At most, typical *Bluetooth* devices (15.75 mW) reach only one percent of the prescribed safety levels.

Product Care

- Do not expose your product to liquid, moisture or extreme humidity.
- Do not expose your product to extreme high or low temperatures.
- Do not expose your product to lit candles, cigarettes, or cigars, or to open flames, etc.
- Do not drop, throw or try to bend the product, as rough treatment could damage it.
- Do not paint your product, as the paint could obstruct parts and prevent normal use.
- Do not attempt to disassemble your product: a broken warranty seal will void the warranty. The product does not contain consumer serviceable components. Should your CHS need service, please contact Socket technical support at: <http://support.socketmobile.com>
- Treat your product with care. Keep in a clean and dust-free place.

- Changes or modifications of this product, not expressly approved by Socket, may void the user's authority to operate the equipment.

Antenna Care

Do not place a metallic shield around the Cordless Hand Scanner since it will reduce the radio transmission efficiency.

Efficient Use

For optimum performance, please make sure that there is no metal surrounding your Cordless Hand Scanner.

Driving

RF energy may affect some electronic systems in motor vehicles, such as car stereo, safety equipment, etc. Check with your vehicle manufacturer to be sure that the Cordless Hand Scanner will not affect the vehicle's electronics.

Aircraft

- Turn off your Cordless Hand Scanner before boarding any aircraft.
- To prevent interference with communications systems, you must not use your Cordless Hand Scanner while the plane is in the air.
- Do not use it on the ground without permission from the crew.

Radio Frequency Exposure

Your Cordless Hand Scanner contains a radio transmitter and receiver. When in operation, it communicates with a *Bluetooth* enabled mobile computer by receiving and transmitting radio frequency (RF) magnetic fields in the frequency range 2400 to 2483.5 MHz. The output power of the radio transmitter is 15.75 mW. The Cordless Hand Scanner is designed to be in compliance with the RF exposure limits set by national authorities and international health agencies¹ when installed or used separately from other antennas or radio transmitters.

¹ Examples of RF exposure standards and guidelines:

ICNIRP, "Guidelines for limiting exposure to time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz)", International Commission on Non-Ionizing Radiation Protection (ICNIRP), Health Physics, vol. 74, pp 494-533, April 1998.

99/519/EC, EU Council Recommendation on the limitation of exposure to the general public to electromagnetic fields 0 Hz – 300 GHz, Official Journal of the European Communities, July 12, 1999.

ANSI/IEEE C95.1-1992, “Safety levels with respect to human exposure to radio frequency electromagnetic fields, 3 kHz to 300 GHz”, The Institute of Electrical and Electronics Engineers, Inc., New York, 1991.

FCC Report and Order, ET Docket 93-62, FCC 96-326, Federal Communications Commission (FCC), August 1996.

Radiocommunications (Electromagnetic Radiation Human Exposure) Standard 1999, Australian Communications Authority (ACA), May 1999.

APPENDIX C

BAR CODE LABEL SPECIFICATIONS

All bar code symbols/labels should satisfy the appropriate AIM Uniform Symbology Specification.

Background Substrate:

The bar code symbol should be printed on material (media) that is reflective and has a matte (not glossy) finish. A background diffuse reflectance of at least 70% to 80% is desirable for optimum contrast. Retro-reflective media should be used to obtain decode distances greater than 36 inches.

Ink Color and Type:

The inked bars should not exceed 25% reflectance at the wavelength that is being used for reading, whether printed with black ink or colored ink. The reflectance value should not vary more than 5% within the same character.

Voids and Specks:

The code should be printed clearly, free of voids, specks, blemishes and lines that could "fool" the scanner. Specks or blemishes in the white spaces, or false or missing bar sections could be interpreted by the reading equipment as part of the code. Generally, the width of such flaws is more serious than the height. Code symbols/ labels should be rejected if these defects are present.

Definition:

The bars in the bar code symbol should be well defined. Their edges should not be rough or fuzzy, so that the bars and spaces have the proper widths intended for the bar code symbology used.

Contrast:

Background reflectance (that of the substrate on which the codes are printed) should always provide a good contrast relative to the ink reflectance (that of the code bars). The difference between the two should be at least 37.5% at the wavelength used for reading.

Tolerance:

The ratio of the widths of bars and spaces in a bar code symbol must conform to the appropriate AIM bar code specifications and can cause problems if not correct throughout the bar code. Problems can occur when bar edges are smeared or rough, or when they exhibit voids.

APPENDIX D

ENABLING OR DISABLING SYMBOLOGIES

The CHS is pre-set to automatically detect and decode (auto-discriminate) the most common bar code symbologies. To enable or disable symbologies, use the SocketScan Symbology Selector.

Notes:

- The length of some symbologies will change after Symbology Selector is used. See Table 1.
- Enabling more symbologies will make the scanner work harder to search through more possible combinations, making the decoding process slightly longer.
- The advanced symbology parameters listed in Table 2 can only be modified with the SocketScan Advanced Programming Guide or SocketScan SDK. Check the Socket website for updates.

Table 1. Default Symbologies

Symbology	Scanner Default	Default Length	Length after Symbology Selector
UPC/EAN/JAN			
UPC-A	Enabled	N/A	N/A
UPC-E	Enabled	N/A	N/A
UPC-E1	Disabled	N/A	N/A
EAN-8	Enabled	N/A	N/A
EAN-13	Enabled	N/A	N/A
Code 128 (USS-128 & UCC/EAN 128)	Enabled	Any	Any
Code 39*			
Code 39	Enabled	2 to 23	2 to 55
Trioptic Code 39	Enabled	2 to 23	2 to 55
Code 39 Full ASCII	Disabled	2 to 23	2 to 55
Code 93	Disabled	2 to 38	2 to 55
Interleaved 2 of 5*	Enabled	14 Only	2 to 55
Discrete 2 of 5*	Disabled	12 Only	2 to 55
Codabar	Disabled	5 to 55	2 to 55
MSI Plessey*	Disabled	1 to 30	2 to 55
RSS-14 (Standard, Limited, Expanded)	Disabled	N/A	N/A

*Warning: Setting the length to "Any" may lead to inaccurate decodes of these symbologies.

Table 2. Other Symbology Parameters

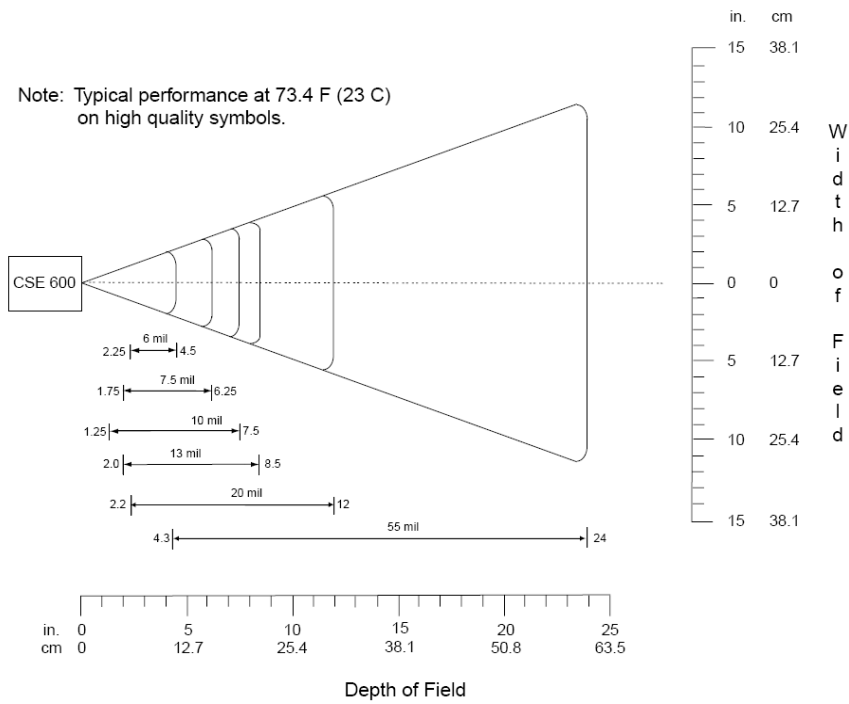
Symbology Parameters	Scanner Default
UPC/EAN/JAN	
Supplementals	Disabled
Transmit Check Digit	Enabled
Bookland EAN	Disabled
Decode UPC/EAN Supplementals	Ignore
UPC/EAN Supplemental Redundancy	Seven
Transmit UPC-A Check Digit	Enabled
Transmit UPC-E Check Digit	Enabled
Transmit UPC-E1 Check Digit	Enabled
Convert UPC-E to A	Disabled
Convert UPC-E1 to A	Disabled
EAN-8 Zero Extend	Disabled
UPC/EAN Security Level	0
UPC/EAN Coupon Code	Disabled
Code 39	
Convert Code 39 to Code 32	Disabled
Code 32 Prefix	Disabled
Check Digit Verification	Disabled
Transmit Check Digit	Disabled
Code 39 Full ASCII	Disabled
Interleaved 2 of 5	
Check Digit Verification	Disabled
Transmit Check Digit	Disabled
Convert I 2 of 5 to EAN-13	Disabled
RSS-14	Disabled
RSS-14 Limited	Disabled
RSS-14 Expanded	Disabled

APPENDIX E

DECODE ZONE

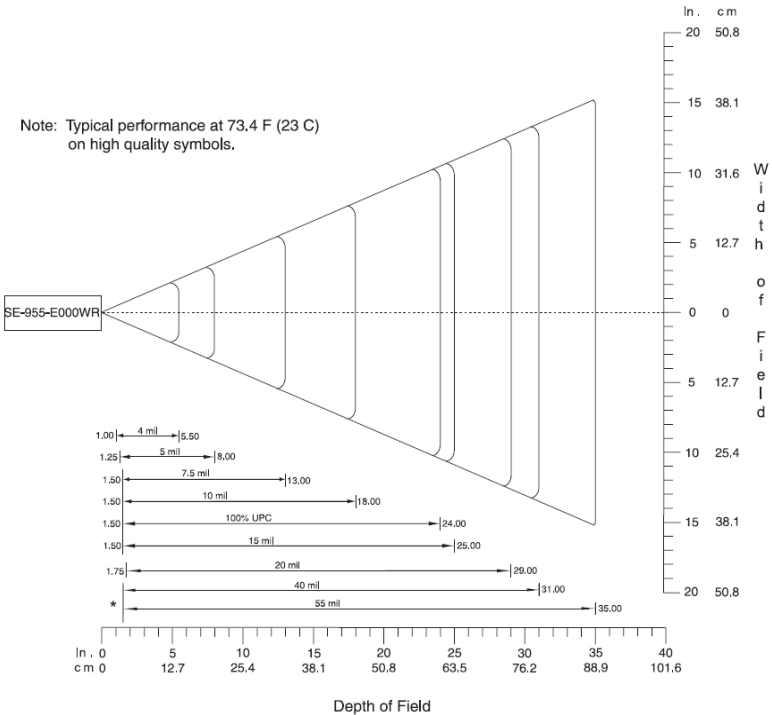
The decode zones for the Cordless Hand Scanner are shown below. The minimum element width ("X Dimension" or bar code "size") is the width in thousandths of an inch (mils) of the narrowest element (bar or space) in the symbol. The figures shown are the typical scanning distances (depths of field) for selected bar code sizes. The maximum usable length of a bar code symbol (Width of Field) at any given range is also shown.

CHS 7E



CHS 7M

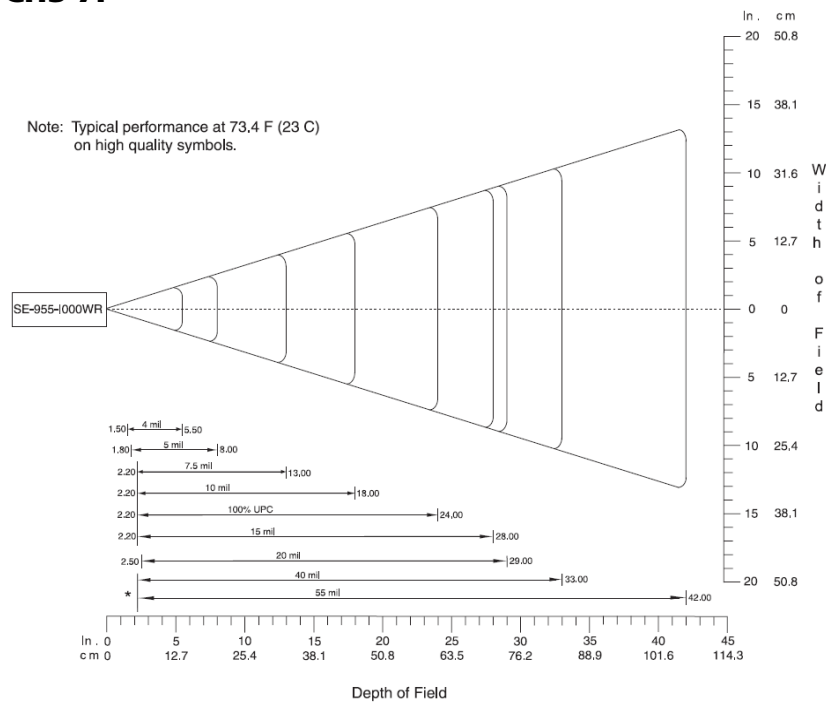
Note: Typical performance at 73.4 F (23 C)
on high quality symbols.



*Minimum distance determined by symbol length and scan angle

CHS 7P

Note: Typical performance at 73.4 F (23 C)
on high quality symbols.



*Minimum distance determined by symbol length and scan angle

APPENDIX F


RESTORING FACTORY DEFAULTS


To restore the CHS to its factory defaults, do the following:

1. Turn on the CHS. Make sure the CHS does not have a *Bluetooth* connection.
2. While pressing the trigger button, briefly press and release the power button.
3. Wait 15 seconds or until you hear a single beep.
4. Release the trigger button. If you performed the actions correctly, multiple beeps will sound, and the CHS will power off.
5. The next time you power on the CHS, it will reset the virtual memory and scan engine to their factory default settings.

APPENDIX G

TROUBLESHOOTING

For help on SocketScan, tap **Start | Help** on a Pocket PC, or tap on the  icon on a Palm device.

SYMPTOM: *I get the “No Scanner Detected”  icon in the task tray of my Windows-based mobile computer and can’t trigger the scanner or scan any bar codes.*

POSSIBLE REASON	SOLUTION
Your mobile computer is not connected to the Cordless Hand Scanner.	Make sure the Cordless Hand Scanner is on and in range and has enough battery power. Try to reconnect.

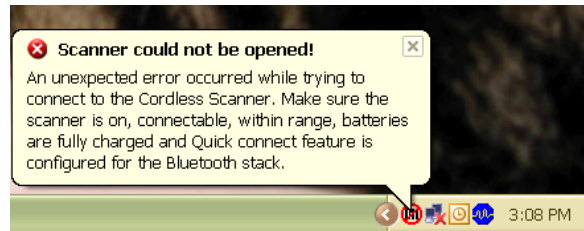
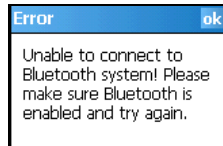
SYMPTOM: *When I try to scan, the scanner beam activates, but no data appears on my screen, and the beam eventually turns off.*

POSSIBLE REASON	SOLUTION
The scanner is too close or too far from the bar code.	Practice so you get accustomed the most effective distance and scanning angle.
The bar code is incorrectly formatted or poorly printed.	Try scanning a bar code that is correctly formatted or printed well, such as on a retail package.
The bar code symbology may be disabled or not supported by the Cordless Hand Scanner.	Use Scan Demo for Windows Mobile or the Test screen for Palm OS to identify the symbology. If needed, enable the symbology by using Symbology Selector for Windows Mobile or the Symbology screen for Palm OS.
You don’t have an application open to scan data into.	Open an application, such as Excel, and place the cursor where you want scanned data to go. Try scanning again.

SYMPTOM: When I scan a lot of bar codes very fast, the scanner locks up and won't work for a few seconds.

POSSIBLE REASONS	SOLUTION
You are scanning too fast for the Error Proof Protocol to confirm that the mobile computer has successfully received each scan of data.	Wait for the confirmation beep after each scan before you scan a new bar code. You may need to re-scan data that was not correctly received by the mobile computer.

SYMPTOM: My mobile computer cannot find the Cordless Hand Scanner, and/or I get an error message saying that there are connection problems.



POSSIBLE REASONS	SOLUTION
You are too far from the Cordless Hand Scanner.	Move the devices closer together, within a range of 10-15 meters.
The Cordless Hand Scanner is not turned on.	Turn on the Cordless Hand Scanner.
You have assigned another device as your favorite or default <i>Bluetooth</i> serial device.	Remove any settings that assign another device as your favorite <i>Bluetooth</i> serial device.
You are using an XP or Vista system without Connect!Agent, and you did not start the <i>Bluetooth</i> software.	Start the <i>Bluetooth</i> software.
The <i>Bluetooth</i> radio of your mobile computer is not turned on.	Turn on the <i>Bluetooth</i> radio of your mobile computer.

SYMPTOM: While scanning with the CHS, I turned off the Pocket PC, or my Pocket PC entered suspend mode. Now my Pocket PC won't turn on again.

POSSIBLE REASONS	SOLUTION
This is a known problem with the Widcomm stack (built into HP h221X iPAQ Pocket PCs with ROM version 1.00).	Soft reset the Pocket PC by pressing the reset button.

SYMPTOM: My Pocket PC shows an error message saying that there are insufficient device resources.

POSSIBLE REASONS	SOLUTION
Some HP iPAQ Pocket PCs are not compatible with the Cordless Hand Scanner.	The CHS will not work with your Pocket PC at this time.

SYMPTOM: Connect!Agent has found multiple CHS devices, and I don't know which one to choose.

POSSIBLE REASONS	SOLUTION
This is your first time using Connect!Agent to connect to a CHS, and Connect!Agent has found multiple CHS devices using the default name.	Turn off the CHS device(s) you do not want to connect to. Tap Refresh . Connect!Agent will connect to and save information about your CHS to exclusively connect to it in the future.
Same as above.	If you have a Windows XP or Windows Vista system, you can install SocketScan and use the Advanced Security Settings to change the scanner's <i>Bluetooth</i> friendly name to something you can easily recognize.

SYMPTOM: *While scanning with the CHS, I turned off the Pocket PC, or my Pocket PC entered suspend mode. Now the CHS won't reconnect to my Pocket PC.*

POSSIBLE REASONS	SOLUTION
There is a problem with the Widcomm stack on some Pocket PCs where the CHS can be discovered but fails to communicate. Affected units include the HP iPAQ models h221X with ROM version 1.10 and h1945.	Soft reset the Pocket PC by pressing the reset button.

APPENDIX H

TECHNICAL SUPPORT

If you have trouble installing or using the CHS, Socket has different support options to help you.

Online Knowledge Base: Search for articles, Frequently Asked Questions or Hot Topics any time, day or night.

<http://support.socketmobile.com> Click on **Support Articles**.

Online Requests: Register your product and submit a question to our Technical Support Team. <http://support.socketmobile.com>

By Phone: Contact our Tier 1 Technical Support by calling either:

- USA & Canada Toll-Free: 800-279-1390
- Direct: +1- 510-933-3020

LIMITED WARRANTY

Socket Mobile Incorporated (Socket) warrants this product against defects in material and workmanship, under normal use and service, for one (1) year from the date of purchase.

EXCLUDES: Consumables such as batteries, removable cables, cases, straps, chargers, and CF-to-PC Card adapters (90 day coverage only)

An extended warranty is available separately for the Cordless Hand Scanner. For more information, please visit:

<http://support.socketmobile.com>

Incompatibility is not a defect covered by the Socket warranty. During the warranty period, Socket will, at its option, repair or replace the defective product at no charge when furnished with proof of retail purchase, provided that you deliver the product to Socket or to an authorized Socket Service Center.

The returned product must be accompanied by a return material authorization (RMA) number issued by Socket or by a Socket Service Center. If you ship the product, you must use the original container or equivalent and you must pay the shipping charges to Socket. Socket will pay surface shipping charges back to any location in the contiguous United States. This warranty applies only to the original retail purchaser and is not transferable.

Socket may, at its option, replace or repair the product with new or reconditioned parts and the returned product becomes property of Socket. Socket warrants the repaired or replaced products to be free from defects in material or workmanship for ninety (90) days after the return shipping date, or for the remainder of the original warranty period, whichever is greater.

This warranty does not cover the replacement of products damaged by abuse, accident, misuse or misapplication, nor as a result of service or modification other than by Socket. This warranty is void if you install batteries into the product that were not supplied by Socket.

SOCKET MOBILE IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING DAMAGE TO PROPERTY AND, TO THE EXTENT PERMITTED BY LAW, DAMAGES FOR PERSONAL INJURY. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Some states do not allow limitation of implied warranties, or the exclusion or limitation of incidental or consequential damages, so that

the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

This product may contain fully tested, recycled parts, warranted as if new.

For warranty information, please visit: <http://support.socketmobile.com/>

DISCLAIMER

EXCEPT TO THE EXTENT EXPRESSLY WARRANTED BY SOCKET MOBILE, INC, THIS PRODUCT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. EXCEPT TO THE EXTENT REQUIRED BY LAW, SOCKET MOBILE DOES NOT ASSUME ANY PRODUCT LIABILITY ARISING OUT OF, OR IN CONNECTION WITH, THE APPLICATION OR USE OF ANY PRODUCT OR APPLICATION DESCRIBED HEREIN.

LIMITED SOFTWARE WARRANTY

LIMITED WARRANTY. SOCKET MOBILE, INC. (Socket) warrants that the original disk or CD ROM is free from defects for 90 days from the date of delivery of the SOFTWARE.

CUSTOMER REMEDIES. SOCKET's entire liability and your exclusive remedy shall be, at SOCKET MOBILE'S option, either (a) return of the price paid or (b) replacement of the SOFTWARE which does not meet SOCKET'S Limited Warranty and which is returned to SOCKET with a copy of your receipt. Any replacement SOFTWARE will be warranted for the remainder of the original warranty period or 30 days, whichever is longer. THESE REMEDIES ARE NOT AVAILABLE OUTSIDE OF THE UNITED STATES OF AMERICA.

NO OTHER WARRANTIES. SOCKET disclaims all other warranties, either express or implied, including but not limited to implied warranties of merchantability and fitness for a particular purpose, with respect to the SOFTWARE and the accompanying written materials. This limited warranty gives you specific legal rights. You may have others which vary from state to state.

NO LIABILITY FOR CONSEQUENTIAL DAMAGES. In no event shall SOCKET or its suppliers be liable for any damages whatsoever (including, without limitation, damages for loss of business profits, business interruption, loss of business information, or other pecuniary loss) arising out of the use of or inability to use the SOFTWARE, even if SOCKET has been advised of the possibility of such damages. Because some states do not allow the exclusion or limitation of liability for consequential or incidental damages, the above limitation may not apply to you.

EXPORT LAW ASSURANCES. You may not use or otherwise export or reexport the SOFTWARE except as authorized by United States law and laws of the jurisdiction in which the SOFTWARE was obtained. In particular, but without limitation, none of the SOFTWARE may be used or otherwise exported or reexported (a) into (or to a national or resident of) a United States embargoed country or (b) to anyone on the U.S. Treasury Department's list of Specially Designated Nationals or the U.S. Department of Commerce's Table of Denial Orders. By using the SOFTWARE, you represent and warrant that you are not located in, under control of, or a national or resident of any such country or on any such list.

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CONTROLLING LAW AND SEVERABILITY. This License shall be governed by the laws of the United States and the State of California. If for any reason a court of competent jurisdiction finds any provision, or portion thereof, to be unenforceable, the remainder of this License shall continue in full force and effect.

REGULATORY COMPLIANCE

The Socket Cordless Hand Scanner is designed to be compliant with the rules and regulations in locations where they are sold and will be labeled as required. This product is type approved — users are not required to obtain license or authorization before using.

This product has been certified as conforming to technological standards. Therefore, the following actions are punishable by law:

- Disassembly or modification of this product
- Removal of identification labels on the back of the product

The frequency used by this product is also used by industrial, scientific and medical devices, such as microwave ovens, as well as wireless detectors for motion detectors, such as those requiring licenses used on manufacturing lines or similar radio transmitters (all of these wireless devices will be called “other wireless transmitters” below). Most modern electronic equipment (e.g., in hospitals and cars), is shielded from RF energy. However, certain electronic equipment is not.

1. Please ensure that all medical devices used in proximity to this device meet appropriate susceptibility specifications for this type of RF energy.
2. In the unlikely event that there is electronic interference between this system and other wireless transmitters, quickly change the location of operation or stop operating the unit (cease signal transmission).
3. If other electrical interference or related problems occur, contact Socket technical support at <http://support.socketmobile.com/>

Radio Frequency Interference Requirements

This device complies with part 15 of the FCC rules and Industry Canada. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment is also ETS EN300 328-2, ETS EN301 489-1 and ETS EN301 489-17 compliant. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his or her own expense.

This equipment generates and radiates radio-frequency energy. To comply with FCC RF exposure compliance requirements, the following antenna installation and device operating configurations must be satisfied: (1) Users are not permitted to make changes or modify the system in any way, and (2) connecting external antennas to the Cordless Hand Scanner is prohibited. This device and its antenna must not be co-located or operated with any other antenna or transmitter.

To comply with Industry Canada RF exposure compliance requirements, the following antenna installation and device operating configurations must be satisfied: "The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, available at Health Canada's website www.hc-sc.gc.ca/ehp/ehd/catalogue/rpb.htm"

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user may try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna of the radio or television.
- Increase the distance separating the equipment and the receiver.
- Connect the equipment to an outlet on a different branch circuit than that of the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

The user may find the following booklet helpful: *How to Identify and Resolve Radio-TV Interference Problems*. This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402.

Canada Certification

The marking of "IC:2394A-CHS1" on the device means: "2394A-CHS1" is the certification number, and the term "IC" before the equipment certification number only signifies that Industry Canada technical specifications were met.

Radio Frequency Interference Requirements – Canada

This Class B digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le Matériel Brouilleur du Canada.

CE Marking & European Union Compliance

Products intended for sale within the European Union are marked with a CE Mark which indicates compliance to applicable Directives and European Normes (EN), as follows. Amendments to these Directives or ENs are included: Normes (EN), as follows:

Applicable Directives:

- Radio and Telecommunications Terminal Equipment Directive 1999/5/EC
- Low Voltage Directive 73/23/EEC

Applicable Standards:

- EN 55 022 – Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment.
- EN 50 082-1 – Electromagnetic Compatibility – General Immunity Standard, Part 1: Residential, Commercial, Light Industry.
- IEC 801.2 – Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment, Part 2: Electrostatic Discharge Requirements.
- IEC 801.3 – Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment, Part 3: Radiated Electromagnetic Field Requirements.
- IEC 801.4 - Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment, Part 4: Electrical Fast Transients Requirements

LASER DEVICE:

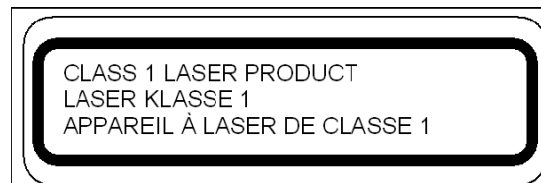
The Socket Cordless Hand Scanner 7M and 7P described in this User Guide contain a Symbol SE955 laser scan engine.

For the Class 1 version of this engine (CHS 7M), the following applies:

- Complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001.
- Class 1 Laser devices are not considered to be hazardous when used for their intended purpose. The following statement is required to comply with US and international regulations:

Caution: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

A label such as the one below should appear on the end product.



Example of Class 1 Laser Warning Label

For the Class 2 version of this engine (CHS 7P), the following applies:

- Complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001.
- Caution: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.
- Class 2 laser scanners use a low power, visible light diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a Class 2 laser is not known to be harmful.

A label such as the one below should appear on the end product.



Example of Class 2 Laser Warning Label

Battery Warning:

- Your device contains a rechargeable NiMH battery. Never throw the battery into a fire, as that could cause the battery to explode.
- Never short-circuit the battery by bringing the terminals in contact with another metal object. This could cause personal injury or a fire, and could also damage the battery.
- Never dispose of used battery with other ordinary solid wastes. Batteries contain toxic substances.
- Dispose of used battery in accordance with the prevailing community regulations that apply to the disposal of batteries. Cover the metal terminals with insulating tape. (This is to prevent accidental short-circuiting).
- Never expose the battery to any liquid.
- Always keep the battery out of reach of infants or small children.
- Never shock the battery by dropping it or throwing it.
- Dispose of a spent or damaged battery promptly.

Product Disposal

Your device should not be placed in municipal waste. Please check local regulations for disposal of electronic products.



